

GenCore version 5.1.6
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CM protein - protein search, using sw model

Run on: December 3, 2003, 08:45:12 ; Search time 21 Seconds

(without alignments)
461.390 Million cell updates/sec

Title: US-09-903-190-97

Perfect score: 1261
Sequence: 1 MQDDDGITLTKIKRKALV.....NKHLNGCRKAGMTKVDLP 229

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310658 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

Issued Patents AA:*
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2: /cgn2_6/ptodata/1/aa/5B.COMB.pep:*
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6: /cgn2_6/ptodata/1/aa/6D.COMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1261	100.0	229	4	US-09-247-155-97
2	1253	99.4	229	4	US-09-996-243-424
3	352.5	28.0	280	4	US-09-996-243-319
4	350.5	27.8	284	2	US-09-055-095-1
5	288	22.8	244	3	US-08-772-440-2
6	280.5	22.2	201	2	US-08-688-342-1
7	280.5	22.2	201	2	US-09-113-768-1
8	264	20.9	272	1	US-08-690-095-1
9	264	20.9	272	3	US-09-113-768-1
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14	249.5	19.8	273	2	US-08-352-302-6
15	243.5	19.3	273	2	US-08-809-494A-4
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27	195.5	15.5	179	2	US-08-650-578-2

restricted out of parent
application

28	195.5	15.5	179	2	US-08-688-342-3	Sequence 3, Appli
29	195.5	15.5	179	2	US-09-113-788-3	Sequence 3, Appli
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34	190	15.1	316	3	US-09-113-789-4	Sequence 4, Appli
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50	158	12.5	120	3	US-08-543-246B-18	Sequence 18, Appli
51	158	12.5	215	1	US-08-690-095-7	Sequence 7, Appli
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54	158	12.5	215	3	US-08-543-246B-22	Sequence 22, Appli
55	158	12.5	225	5	US-08-738-462-2	Sequence 2, Appli
56	158	12.5	225	5	PCT-US94-07587-2	Sequence 2, Appli
57	155	12.3	199	5	PCT-US93-10418-4	Sequence 4, Appli
58	154.5	12.3	209	3	US-08-772-440-4	Sequence 4, Appli
59	153	12.0	167	3	US-08-772-440-21	Sequence 21, Appli
60	151.5	12.0	114	6	US-08-772-440-21	Sequence 21, Appli
61	151	12.0	287	1	US-08-365-103B-4	Sequence 4, Appli
62	151	12.0	300	1	US-08-365-103B-6	Sequence 6, Appli
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75	139	11.0	1487	3	US-08-840-662-7	Sequence 7, Appli
76	138.5	11.0	291	2	US-08-688-342-5	Sequence 5, Appli
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78	138.5	11.0	291	3	US-09-111-470-5	Sequence 5, Appli
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80	137	10.9	149	4	US-09-489-147-167	Sequence 167, App
81	136	10.8	114	5	US-08-722-126A-6	Sequence 6, Appli
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85	134.5	10.7	115	5	PCT-US95-04258-8	Sequence 8, Appli
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87	134	10.6	2409	6	US-08-690-095-6	Sequence 6, Appli
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93	128.5	10.2	79	4	US-08-531-056A-19	Sequence 19, Appli
94	128.5	10.2	328	4	US-09-531-056A-13	Sequence 13, Appli
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96	127	10.1	1455	3	US-08-840-662-5	Sequence 5, Appli
97	124.5	9.9	130	1	US-07-893-932A-7	Sequence 7, Appli
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ALIGNMENTS

RESULT 1

US-09-247-155-97

Sequence 97, Application US/09247155A

Patent No. 612322

GENERAL INFORMATION:

APPLICANT: Dumas Milne Edwards, Jean-Baptiste

APPLICANT: Duciery, Aymeric

APPLICANT: Bouquelarel, Lydie

TITLE OF INVENTION: Complementary DNAs

FILE REFERENCE: GENSET.021A

CURRENT APPLICATION NUMBER: US/09/247,155A

CURRENT FILING DATE: 1998-02-09

EARLIER APPLICATION NUMBER: 60/074,121

EARLIER FILING DATE: 1998-02-09

EARLIER APPLICATION NUMBER: 60/081,563

EARLIER FILING DATE: 1998-04-13

EARLIER APPLICATION NUMBER: 60/096,116

EARLIER FILING DATE: 1998-08-10

EARLIER APPLICATION NUMBER: 60/099,273

EARLIER FILING DATE: 1998-10-04

NUMBER OF SEQ ID NOS: 182

SOFTWARE: Patent.pm

SEQ ID NO 97

LENGTH: 229

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: SIGNAL

LOCATION: -47...-1

US-09-247-155-97

Query Match 100.0%; Score 1261; DB 4; Length 229;

Best Local Similarity 100.0%; Pred. No. 1,2e-128;

Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 YLDENENRTGTLQOLANRFGQYVVKOSLKTGFEGHKOSPCDTNWRYYGDSYGFPRHN 120
Db 61 YLDENENRTGTLQOLANRFGQYVVKOSLKTGFEGHKOSPCDTNWRYYGDSYGFPRHN 120
QY 121 LTWESKQYCTDMNTLTKIDNRNIVYIKATHTLIRWVGLSEQKSNVWTKWEDGSVISE 180
Db 121 LTWESKQYCTDMNTLTKIDNRNIVYIKATHTLIRWVGLSEQKSNVWTKWEDGSVISE 180
QY 181 NMFEELBDGKNMNCAYFHNGKMHPTPCENKHYLMCEKXAGATKYDOLP 229
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RESULT 2

US-09-996-243-424

Sequence 424, Application US/09996243

Patent No. 6478825

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnovers, Luc

APPLICANT: Baton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerlitsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

```
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paon, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: p2730Pic13
CURRENT APPLICATION NUMBER: US/09/996,243
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065166
PRIOR FILING DATE: 1997-11-12
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PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090535
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PRIOR FILING DATE:	1998-06-24

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4 PRIOR FILING DATE: 1998-06-24
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6 PRIOR FILING DATE: 1998-06-24
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8 PRIOR FILING DATE: 1998-06-25
9 PRIOR APPLICATION NUMBER: 60/090678-24
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23 PRIOR APPLICATION NUMBER: 60/091360-26
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25 PRIOR APPLICATION NUMBER: 60/091478-26
26 PRIOR FILING DATE: 1998-07-02
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33 PRIOR APPLICATION NUMBER: 60/091633-26
34 PRIOR FILING DATE: 1998-07-02
35 PRIOR APPLICATION NUMBER: 60/091978-26
36 PRIOR FILING DATE: 1998-07-07
37 PRIOR APPLICATION NUMBER: 60/091982-26
38 PRIOR FILING DATE: 1998-07-07
39 PRIOR APPLICATION NUMBER: 60/092182-26
40 PRIOR FILING DATE: 1998-07-09

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Query Match	99.4%	Score 1253;	DB 4;	Length 229;
Best Local Similarity	99.6%	Pred. No. 8.5e-128;		
Matches 228; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

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QY	61	YLDENENRGTGLQGLAKRFGQYVVKQSELGTFGKHGCSPODTNMYEGDSCGFFRHN	120
Db	61	YLDENENRGTGLQGLAKRFGQYVVKQSELGTFGKHGCSPODTNMYEGDSCGFFRHN	120
QY	121	LWESRQYCTDMNATLLKIDNRNTVEYIKARTHILIRWVGLSPKSNSEVAKWEDGYSISE	180
Db	121	LWESRQYCTDMNATLLKIDNRNTVEYIKARTHILIRWVGLSPKSNSEVAKWEDGYSISE	180
QY	181	NMEFFLEPGKGNMNCAYFHNGKMHPTPEENGHYLMCEKAKMTVDQLP	229
Db	181	NMEFFLEPGKGNMNCAYFHNGKMHPTPEENGHYLMCEKAKMTVDQLP	229

RESULT 3
US-09-596-243-319
: Sequence 319, Application US/0996243
: Patent No. 6478825
: GENERAL INFORMATION:
: APPLICANT: Ashkenazi, Avi J.
: APPLICANT: Baker, Kevin F.
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan L.
: APPLICANT: Ferrara, Napoleone

[illegible]

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PRIOR APPLICATION NUMBER: 60/030540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/030542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/030557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/030676
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PRIOR APPLICATION NUMBER: 60/031626
PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/031978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/031982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/032152
PRIOR FILING DATE: 1998-07-09

Query Match          99.4%; Score 1253; DB 4; Length 229;
Best Local Similarity 99.6%; Pred. No. 8,5e-128;
Matches 229; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db      QY      1 MODEDGYITNITRKPRALVSAGASPFMRVVALILILICVGNVGIYALGIVSVQRN 60
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QY      DB      61 YLD0ENENRGTIQQIADKRCQYVVK0SEJLKGTFCKHCKSPD0TMYEYGDSCYGFRRN 120
        61 YLD0ENENRGTIQQIADKRCQYVVK0SEJLKGTFCKHCKSPD0TMYEYGDSCYGFRRN 120

QY      DB      121 LTMESBQY0TDDNATILIKTDNENIYETICARPHILNMGVLSRKSNEVAKWEGEGSYISE 180
        121 LTMESBQY0TDDNATILIKTDNENIYETICARPHILNMGVLSRKSNEVAKWEGEGSYISE 180

QY      DB      121 LTMESBQY0TDDNATILIKTDNENIYETICARPHILNMGVLSRKSNEVAKWEGEGSYISE 180
        121 LTMESBQY0TDDNATILIKTDNENIYETICARPHILNMGVLSRKSNEVAKWEGEGSYISE 180

QY      DB      181 NMEEFLEDDGKNNKCAVEYHNGKMHPTFCENKGYILMCRKAGMTVD0LP 229
        181 NMEEFLEDDGKNNKCAVEYHNGKMHPTFCENKGYILMCRKAGMTVD0LP 229

Db      QY      181 NMEEFLEDDGKNNKCAVEYHNGKMHPTFCENKGYILMCRKAGMTVD0LP 229
        181 NMEEFLEDDGKNNKCAVEYHNGKMHPTFCENKGYILMCRKAGMTVD0LP 229

RESULT 3
US-09-996-243-319
; Sequence 319, Application US/09996243
; Patent No. 6478825
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone

```

APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kilgavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC13
CURRENT APPLICATION NUMBER: US/09/996,243
PRIOR FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
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PRIOR FILING DATE: 1997-11-13
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PRIOR FILING DATE: 1997-11-24
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PRIOR FILING DATE: 1998-02-25
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PRIOR APPLICATION NUMBER: 60/087106
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PRIOR FILING DATE: 1998-06-05

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PRIOR APPLICATION NUMBER: 60/088734
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PRIOR APPLICATION NUMBER: 60/089653
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PRIOR FILING DATE: 1998-06-18
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PRIOR FILING DATE: 1998-06-18
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PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445


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; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
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; PRIOR FILING DATE: 1998-06-24
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; PRIOR APPLICATION NUMBER: 60/090863
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; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09
;
Query Match      28.0%; Score 352.5; DB 4; Length 280;
Best Local Similarity 29.1%; Pred. No. 4,4e-30;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
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QY 1 MODEDGYTLTNKTKRKPAV-----SVGPASSFWWRVALLILILICGVNVLVALGI 53
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 11 MDDDDGDTTMSLHSAQASATRRHPRRTTERRAPSSWTWPRVALTLTLTLVLILGLAAGL 70
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 54 W-----SVQORNY-----LQDENENRTGTLQOLAKRFQOVVVKOSE 89
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 71 LFFQYQLSNTGODTISQMEERLGNISQELQVQVTKLAGSLQHVAFKOR-----E 124
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 90 LKGFTHGKSCPCDITNMYRGDSCYGFPRHNTWESQYCTDMATLTKIDNENIYFI 149
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 125 LYNKAGAHRCSPCTEOWKMGDNCQFYKDSKSWEDCKYFCLSENSITMLKINKQEDLEFA 184
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 150 KARTH-----LIRWGLSRQNSNEVWKWEDSVISNNMFPLED--GKNMNCAYFHNKM 203
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 185 ASQYSERFFYSYWTGLRPSDGKAMLMNDGTPFTSELHIIITDTSPPSRDCAVAILNGMI 244
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 204 HPTFCENKHYLMCERRAKGNTKYDOL 228
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 245 FSKDCKEIKRCVCERRAGVKKPESL 269
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RESULT 4
US-09-055-095-1

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; Sequence 1, Application US/09055095
; Patent No. 5945309
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Patterson, Chandra
; APPLICANT: Corley, Neil C.
; APPLICANT: Sather, Susan
; TITLE OF INVENTION: HUMAN OXIDIZED LDL RECEPTOR
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESS: Inocyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/055,095
; FILING DATE: Filed Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET INFORMATION: PF-0500 US
; TELEPHONE: 650-845-4166
; TELEFAX: 650-855-0555
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 284 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: LUNGMO109
; CLONE: 1355922
;
US-09-055-095-1
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Query Match      27.8%; Score 350.5; DB 2; Length 284;
Best Local Similarity 27.6%; Pred. No. 7,4e-30;
Matches 77; Conservative 54; Mismatches 91; Indels 57; Gaps 6;
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QY 1 MODEDGYTLTNKTKRKPAV-----SVGPASSFWWRVALLILILICGVNVLVALGI 53
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DB 1 MDDDDGDTTMSLHSAQASATRRHPRRTTERRAPSSWTWPRVALTLTLTLVLILGLAAGL 60
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QY 54 -----WVQORNY-----LQDENENRTGTLQOLAKRFQOVVVKOSE 75
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DB 61 LKRSALPBGGSWQVQYVQLSNTGODTISQMEERLGNISQELQVQVTKLAGSLQHVAFKOR 120
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 76 LAKFQYVVKQSEHLKGFTHGKSCPCDITNMYRGDSCYGFPRHNTWESQYCTDMATLTKIDNENIYFI 135
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 121 VAEKLCR-----ELYNKAGAHRCSPCTEOWKMGDNCQFYKDSKSWEDCKYFCLSENS 174
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 136 TLKIDNENIYFIKATH-----LIRWGLSRQNSNEVWKWEDSVISNNMFPLED--G 189
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 175 TMLKINKQEDLEFAASQSYSEFFYSYWTGLRPSDGKAMLMNDGTPFTSELHIIITDTS 234
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 190 KANNKNCAYFHNKGMHPTFCENKHYLMCERRAKGNTKYDOL 228
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 235 PRSRDCAVAILNGMIFSKDCKEIKRCVCERRAGVKKPESL 273
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

RESULT 5
US-08-772-440-2

Sequence 2, Application US/08772440
Patent No. 6046158
GENERAL INFORMATION:
APPLICANT: Aritzumi, Kiyoshi
APPLICANT: Takashima, Akira
TITLE OF INVENTION: UNIQUE CENDRITIC CELL-ASSOCIATED C-TYPE
TITLE OF INVENTION: LECTINS, DECTIN-1 AND DECTIN-2; COMPOSITIONS AND USES
TITLE OF INVENTION: THEREOF
NUMBER OF SEQUENCES: 42
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/772,440
FILING DATE: CONCURRENTLY HERewith
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Parker, David L.
REGISTRATION NUMBER: 32,165
REFERENCE/DOCKET NUMBER: UTID:493
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 244 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-772-440-2

Query Match 22.8%; Score 286; DB 3; Length 244;
Best Local Similarity 32.6%; Pred. No. 3, 5e-23;
Matches 78; Conservative 32; Mismatches 101; Indels 28; Gaps 9;

QY 3 DEDGYITINIKT-----RKALVSVGP-ASFWRMVALLILLCVGMVGVVAGVMSM 57
DB 11 DEDGYTQIDPSTQDIHKRPRGSEKSRAPSPRPVAVGLGICVVVVVAAVLGALAFW 70
QY 58 QR-----NYLDENENRTGTLQOLAKRFGQVYVKGSELKGTFGKHKSPCDTWMR 107
DB 71 RNSGRNPEKDNFJSRKNENHKPTSSSLDEKVP--SKASQTGGF--SQSCLP---KVI 124
QY 108 YYGDSYGFRRNLTWBESKQYCTDMNATLTKIDNENIVEYIKART--HLIR--WVGLSR 163
DB 125 MHGKCYLFSFGSGNMYGSKRHCSQLGAILKIDNSKEEFLESQSSHRIINAFWIGLSR 184
QY 164 QKSNVWVWEDGSYSNNMFEELDEGKGM--NCAFFHNGNHTPTCENKHYLMCEK 219
DB 185 NQSEGPWEDGSAFFPNSFOVRNTVPOESLILHNCWILHSGSEVINOICNTSSYICEKE 243

RESULT 6
US-08-688-342-1
Sequence 1, Application US/08688342
Patent No. 5871964
GENERAL INFORMATION:
APPLICANT: Au-Young, Janice
APPLICANT: Cocks, Benjamin G.
APPLICANT: Goli, Surya K.
APPLICANT: Hillman, Jennifer L.
TITLE OF INVENTION: NOVEL HUMAN C-TYPE LECTIN
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
COMPUTER READABLE FORM:

ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: US
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/688,342
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0095-1 CTP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 201 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: MMLRIDT01
CLONE: 515847
US-08-688-342-1

Query Match 22.2%; Score 280.5; DB 2; Length 201;
Best Local Similarity 28.9%; Pred. No. 1, 7e-22;
Matches 67; Conservative 34; Mismatches 76; Indels 53; Gaps 4;

QY 3 DEDGYITINIKTRKPAVSV-----GPASSFWRMVALLILLCVGMVGVVAGVMSM 57
DB 11 DEDGYTQIDPDSQNTRAVAVSEKSCASPPWRLAVILGILCLVILVAVVAVGTMGL 70
QY 58 QRNYLDENENRTGTLQOLAKRFGQVYVKGSELKGTFGKHKSPCDTWMRYYGDSYGF 117
DB 71 S-----SCPPWRIIYKSCYLS 89
QY 118 RNLTWBESKQYCTDMNATLTKIDNRN---IYVYKARTLIRWVGLSRKSNEMWKE 173
DB 90 MSLSMWSGSKRQCGQAGSNLTKIDNSNGLGFIKQVSSQPDNSFWIGSRPQTEVPWLME 149
QY 174 DGSVISENMEF---LEDGKNANCAVFNHNGKHPPTCENKHYLMCEKAC 222
DB 150 DGSYSSVLFQIRTTAIGDPSFNCVWILHSGSEVINOICNTSSYICEKFSM 201

RESULT 7
US-09-113-788-1
Sequence 1, Application US/09113788
Patent No. 5869104
GENERAL INFORMATION:
APPLICANT: Au-Young, Janice
APPLICANT: Cocks, Benjamin G.
APPLICANT: Goli, Surya K.
APPLICANT: Hillman, Jennifer L.
TITLE OF INVENTION: NOVEL HUMAN C-TYPE LECTIN
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: US
ZIP: 94304
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/113,788
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/688,342
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0095-1 CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 201 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: MMLRIDT01
CLONE: 515847
US-09-113-788-1

Query Match 22.2%; Score 280.5; DB 2; Length 201;
Best Local Similarity 28.9%; Pred. No. 1.7e-22;
Matches 67; Conservative 34; Mismatches 78; Indels 53; Gaps 4;

QY 3 DEDGTTNITKTKALSV-----GPASSFWRMVALILILICGMVYGLVALGIMVYM 57
DB 11 DEDGTTQHPDSQSTRIAVSEKSCASPPWRUAVILGLICVILVAVVGLTGMVL 70
QY 58 QRYNLDENENRTGTLQOLAKRFCCQYVVKSHLKTGFKHKSCPDITWRRYYGDSGCGFF 117
DB 71 S-----SPCPRWIIYKSCYIFS 89
QY 118 RHNLTWESKQYCTMNAATLKIDNEN---IVEYIKARTLIRWVGLSRKSNKWEKWE 173
DB 90 MSINWSDGSKQOCWQIGSNLTKIDSNELGFIYKQVSSQPDNSFWIGLSPQTEVPWLM 149
QY 174 DGSVTSKMPFER---LEDGKGNMCAYFHNKGHPTFENKHYLCEKKAQM 222
DB 150 DGSITSSNLFQIRTTATQENSPNCVWILHVSIVYDQLCSVPSYSICEKKFSM 201

RESULT 8
US-08-690-095-1
Sequence 1, Application US/08690095
Patent No. 5792648
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Au-Young, Janice
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/690,095
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0110 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 272 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: MPMGNOT03
CLONE: 513418
US-08-690-095-1

Query Match 20.9%; Score 264; DB 1; Length 272;
Best Local Similarity 28.3%; Pred. No. 1.6e-20;
Matches 73; Conservative 39; Mismatches 102; Indels 44; Gaps 6;

QY 1 MODDGYITNITK-----RKPALVSV---PASSFWRMVALILILICGMVYGLVAL 51
DB 1 MSEVTYADLQFQNSENEKIPKIKFGEKAPAPASHWRPAPALFTLLCLLLIGLGL 60
QY 52 -----GIVSWMORY-----LDENENRTGTLQOLAKRFCCQY 83
DB 61 ASHWYTKIMKCKNKLQNTSEIQRYISQLMSNMWISKIRNLSTLTITATYLCR- 119
QY 84 VVKSELKGTFKGKSCPDITWRYGDSGCGFFRHNLTWESKQYCTMNAATLKIDNR 143
DB 120 -----ELYSKQEHKCKPCPRRWIWHKDSGYFLSDQVQTWQESKMACAQAASILKINK 174
QY 144 NIVEYIKARTLIRWVGLSRKSNKWEKWDGYSISNMFLEDGKGNMCAYFHNK 202
DB 175 NALFIRKQSRSDYDWGLSEEDSTGRMVDNIINSAAVIRNAPDLNNWYCGYNRLY 234
QY 203 MHPFCENKHYLMCEKKA 220
DB 235 VQYHCTYKCKMICEKKA 252

RESULT 9
US-09-113-789-1
Sequence 1, Application US/09113789
Patent No. 6034219
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Au-Young, Janice
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/113,789
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/690,095

FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0110 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 272 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: MPMGNOT03
CLONING: 513418
US-09-113-789-1

Query Match 20.9%; Score 264; DB 3; Length 272;
Best Local Similarity 28.3%; Pred. No. 1,6e-20;
Matches 73; Conservative 39; Mismatches 102; Indels 44; Gaps 6;

QY 1 MDEGTYITNKT-----RKPAVSVG---PASSFWRMALILILCVGWVGLVAL 51
DB 1 MSEVYVADLQFQNSSEMEKLPETGKEKAPAPSHVWRPALFTLLCLILIGLVL 60
QY 52 -----GIVSVQNRNY-----LDENENRTGLQQLAKRFGQY 83
DB 61 ASMFVTLKLEMKKANKLQNLSELOINISQLMSNNKISKINLSTLQTLATKLCR- 119
QY 84 VVKSEIKGTGKHCSPCDTNMRYGDCYGFPRHITWEESSQYCTDMNATLTKIDNR 143
DB 120 -----ELYSKQEHKCKCPRRWTMHKDCYFLSDVQWQESKACAAQNASILKTIINX 174
QY 144 NIVEYIKARTHLI-RWGLSRQKSNVWKMEDGSVISNMFEFLDGKNNNCAYFPNGK 202
DB 175 NALPFIQSQSSYDWMGLSPEDSTRGMRVDNIINSSAWITRNAPDLNNYCGYINFLY 234
QY 203 MHPFCNKHYLMCEKKA 220
DB 235 VQYHCTYKMKMICERKA 252

RESULT 10
US-09-482-273-126
Sequence 126; Application US/09482273
Patent No. 6534631
GENERAL INFORMATION:
ATTORNEY/AGENT INFORMATION:
TITLE OF INVENTION: 71 Human Secreted Proteins
FILE REFERENCE: P2030P1
CURRENT APPLICATION NUMBER: US/09/482,273
CURRENT FILING DATE: 2000-01-13
EARLIER APPLICATION NUMBER: PCT/US99/15849
EARLIER FILING DATE: 1999-07-14
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/092,922
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/092,956
EARLIER FILING DATE: 1998-07-15
NUMBER OF SEQ ID NOS: 267
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 126
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
US-09-482-273-126

Query Match 20.9%; Score 263.5; DB 4; Length 248;
Best Local Similarity 29.6%; Pred. No. 1,6e-20;

Matches 67; Conservative 35; Mismatches 89; Indels 35; Gaps 4;
QY 24 PASSFWRMALILILCVGWVGLVAL-----GIVSVQNRNY----- 61
DB 16 PASHVWRPALFTLLCLILIGLVLASMFVTLKLEMKKANKLQNLSELOINISQ 75
QY 62 -----LDENENRTGLQQLAKRFGQYVVKSEIKGTGKHCSPCDTNMRYGDCY 115
DB 76 LMSNNKISKINLSTLQTLATKLCR-----ELYSKQEHKCKCPRRWTMHKDCY 129
QY 116 FPRHITWEESSQYCTDMNATLTKIDNRNIVEYIKARTHLI-RWGLSRQKSNVWKMED 174
DB 130 LSDVDVQWQESKACAAQNASILKINNKALPFIQSQSSYDWMGLSPEDSTRGMRVD 189
QY 175 GSIVSNMFEFLDGKNNNCAYFNGKCHPTFCNKHYLMCEKKA 220
DB 190 NINSSAWITRNAPDLNNYCGYINFLYQYHCTYKMKMICERKA 235

RESULT 11
US-08-772-440-13
Sequence 13; Application US/08772440
Patent No. 6046158
GENERAL INFORMATION:
ATTORNEY/AGENT INFORMATION:
NAME: Takashima, Akira
REGISTRATION NUMBER: 32,165
REFERENCE/DOCKET NUMBER: UTXD:493
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 199 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-772-440-13

Query Match 20.3%; Score 255.5; DB 3; Length 199;
Best Local Similarity 30.6%; Pred. No. 8,8e-20;
Matches 70; Conservative 26; Mismatches 80; Indels 53; Gaps 8;

QY 3 DEDGYITLNIKT-----RKPAVSVGP-ASSFWRMALILILCVGWVGLVALGIVSV 57
DB 11 DEDGYITLNIKT-----RKPAVSVGP-ASSFWRMALILILCVGWVGLVALGIVSV 65
QY 58 QNRYLDENENRTGLQQLAKRFGQYVVKSEIKGTGKHCSPCDTNMRYGDCYGF 117
DB 66 -----ALGSP-SQSCLP---NMIVGKSCYFLFS 89

QY 118 RHNLTWESKOYCTDMNATLTKIDNRNIVEYIKART--HLIR--WVGLSRQXSNWEVWKE 173
DB 90 FSGNSWMSKRCOSQGLGATLTKIDNSKEEFIESQTSRIRIAPFISGRSNEBPWME 149
QY 174 DGSVISENFEFLDEKGNM--NCAYFHNGXMHPTFCENKHYLMCERK 219
DB 150 DGSAPFNSFYQVNTVPORSLHNCVWIGSEVYNQICNTSSYSICEKE 198

RESULT 12

US-09-055-095-3
Sequence 3, Application US/09055095
Patent No. 5945308
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Patterson, Chandra
APPLICANT: Corley, Neil C.
APPLICANT: Sather, Susan
TITLE OF INVENTION: HUMAN OXIDIZED LDL RECEPTOR
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSER: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/055,095
FILING DATE: Filed Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PP-0500 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 273 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 1902984
US-09-055-095-3

Query Match 19.8%; Score 249.5; DB 2; Length 273;
Best Local Similarity 25.7%; Pred. No. 6.2e-19;
Matches 62; Conservative 50; Mismatches 78; Indels 51; Gaps 7;

QY 29 WWRVVALILLICGVNVVGLVALGIWSVQRYNLYQDENENRT----- 70
DB 34 WMCILAATLIGVLCGLVVTIVVLGWSQVSDLLTQEQANLTHQKKLEGOISARQQAEE 93
QY 71 -----GTLOQLARFCQYVVKQSE-----LKGTFG-KKCS-PQDTMWRYYGD 111
DB 94 ASQSENEMLKEMIFLARKLNKESKQEWELHONLNLQETLKVANCAPCPQDPMWIGE 153
QY 112 SCYGFPRNLTWESKOYCTDMNATLTKIDNRNIVEYIK--ARTHLIRWGLSRQXNE 168
DB 154 NCYLFSSGSFNMWESQEKCLSLDAKLKLNKTADIDPFIQQAISYSSPFPWGLSRNPSY 213

QY 169 VWKWDGVSISENFEFLDEKGNM-----CAYFHNGXMHPTFCENKHYLMCERKAG 221
DB 214 PMLNEDGSPMLPHLFRV----RGAVSQYPSGTCAYTORGAIVYANCLLAPFSLCQKQAN 269
QY 222 M 222
DB 270 L 270

RESULT 13

US-08-809-494A-6
Sequence 6, Application US/08809494A
Patent No. 5962260
GENERAL INFORMATION:
APPLICANT: Sawamura, Tatsuya
APPLICANT: Masaki, Tomoo
TITLE OF INVENTION: Modified Low-Density Lipoprotein
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: McAlay Fisher Nissen Goldberg & Kiel
STREET: 261 Madison Avenue
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10016-2391
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/809,494A
FILING DATE: 24-MAR-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-321705
FILING DATE: 30-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7-214206
FILING DATE: 31-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: Goldberg, Jules R.
REGISTRATION NUMBER: 24408
REFERENCE/DOCKET NUMBER: JG-YY-4363PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212 986-4090
TELEFAX: 212 818-9479
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 273 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-809-494A-6

Query Match 19.8%; Score 249.5; DB 2; Length 273;
Best Local Similarity 25.7%; Pred. No. 6.2e-19;
Matches 62; Conservative 50; Mismatches 78; Indels 51; Gaps 7;

QY 29 WWRVVALILLICGVNVVGLVALGIWSVQRYNLYQDENENRT----- 70
DB 34 WMCILAATLIGVLCGLVVTIVVLGWSQVSDLLTQEQANLTHQKKLEGOISARQQAEE 93
QY 71 -----GTLOQLARFCQYVVKQSE-----LKGTFG-KKCS-PQDTMWRYYGD 111
DB 94 ASQSENEMLKEMIFLARKLNKESKQEWELHONLNLQETLKVANCAPCPQDPMWIGE 153
QY 112 SCYGFPRNLTWESKOYCTDMNATLTKIDNRNIVEYIK--ARTHLIRWGLSRQXNE 168
DB 154 NCYLFSSGSFNMWESQEKCLSLDAKLKLNKTADIDPFIQQAISYSSPFPWGLSRNPSY 213
QY 169 VWKWDGVSISENFEFLDEKGNM-----CAYFHNGXMHPTFCENKHYLMCERKAG 221

Db 214 PWIMEDGSPIMHPLFRV----RGAVSQTYPSGTCAVYIQGAVYAENCILAAFSIQCKKAN 269
QY 222 M 222
Db 270 L 270

RESULT 14
US-09-352-302-6
; Sequence 6, Application US/09352302
; Patent No. 6197937
; GENERAL INFORMATION:
; APPLICANT: Sawamura, Tatsuya
; APPLICANT: Masaki, Tomoo
; TITLE OF INVENTION: Modified Low-Density Lipoprotein
; TITLE OF INVENTION: Receptor
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESS: McAlay Fisher Nissen Goldberg & Kiel
; STREET: 261 Madison Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10016-2391
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/352,302
; FILING DATE: 12-JUL-1999
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 6-321705
; FILING DATE: 30-NOV-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 7-214206
; FILING DATE: 31-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldberg, Jules B
; REGISTRATION NUMBER: 24408
; REFERENCE/DOCKET NUMBER: JG-YV-4363PCT/D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 986-4090
; TELEFAX: 212 818-9479
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 273 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-352-302-6

Query Match 19.8%; Score 249.5; DB 3; Length 273;
Best Local Similarity 25.7%; Pred. No. 6.2e-19;
Matches 62; Conservative 50; Mismatches 78; Indels 51; Gaps 7;

QY 29 WWRVALLILLICVGVVGLVGLTMSVMOHNYLQDENENRT-----70
Db 34 WWCIAAATLGVLCGLVYTIWGLMOLSOVSDLLTQEQANLTHQKKLEGISARQKAE 93
QY 71 -----GTLQOLARFCQYVVKGB-----LKGTRK-GKGS-PDCTWRYYGD 111
Db 94 ASQSENEELKEMIEFLARKINEKSKQWELHQNINLOETLKVANCSAPCPQDWIMGE 153
QY 112 SCVGFERNLFWESKQYCTDMNATLLKIDRNIVEYK---ARHLLRWGLSKQKSE 168
Db 154 NCYVFPSSGFNWSQKCLSLDAKLLKINSTADIDFIQAKISYSSFPFWGLSKRNSY 213
QY 169 VMKWDGVSISNMFELDGKNN-----CAVFNKGKPTFCENKAYLMCERRAG 221

Db 214 PWIMEDGSPIMHPLFRV----RGAVSQTYPSGTCAVYIQGAVYAENCILAAFSIQCKKAN 269
QY 222 M 222
Db 270 L 270

RESULT 15
US-08-809-494A-4
; Sequence 4, Application US/08809494A
; Patent No. 5962260
; GENERAL INFORMATION:
; APPLICANT: Sawamura, Tatsuya
; APPLICANT: Masaki, Tomoo
; TITLE OF INVENTION: Modified Low-Density Lipoprotein
; TITLE OF INVENTION: Receptor
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESS: McAlay Fisher Nissen Goldberg & Kiel
; STREET: 261 Madison Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10016-2391
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/809,494A
; FILING DATE: 24-MAR-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 6-321705
; FILING DATE: 30-NOV-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 7-214206
; FILING DATE: 31-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldberg, Jules B
; REGISTRATION NUMBER: 24408
; REFERENCE/DOCKET NUMBER: JG-YV-4363PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 986-4090
; TELEFAX: 212 818-9479
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 273 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-809-494A-4

Query Match 19.3%; Score 243.5; DB 2; Length 273;
Best Local Similarity 24.9%; Pred. No. 2.8e-18;
Matches 64; Conservative 55; Mismatches 85; Indels 53; Gaps 8;

QY 16 KPAIVSVGPASSFEMRWVALLILLICVGVVGLVGLTMSVMOHNYLQDENENRTGL--73
Db 20 KTAKTGFVFSWVYPAVTLGVLCGLVTVTL-----ILQSVSDIKKQCANITH 75
QY 74 -----QOLAKRCQYVVKGS--ELKTRK--GK-----98
Db 76 QEDILBQILDAQRSEKSAQDSQKLEBMITLAHKDESKKIMELHROXNIQEVKE 135
QY 99 -----CSPDITWRYYGDCYGFERNLFWESKQYCTDMNATLLKIDRNIVEYK--A 151
Db 136 AANVSQCQPDWMLHENCYQFSGSFNWSQKCLSLDAKLLKINSTDELFIQOMIA 195
QY 152 RTHVLRVWGLSKQKSNVWKWEDOSVISENMFELDGKNN-----NCAYFHNGKMPYF 207
Db 196 HSSFPFWGLSKRKNYSWLMEDGTPLTFLFR-IQGAVSRMYSGTCAVYIQGIVFAEN 254

QY 208 CENKHYLMCEKAGMTK 224
| : : : : :
Db 255 CILTAFCICCKKANLIR 271

RESULT 16
US-09-352-302-4
; Sequence 4, Application US/09352302
; Patent No. 6197937
; GENERAL INFORMATION:
; APPLICANT: Sawamura, Tatsuya
; APPLICANT: Masaki, Tomoo
; TITLE OF INVENTION: Modified Low-Density Lipoprotein
; TITLE OF INVENTION: Receptor
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAnally Fisher Nissen Goldberg & K&L
; STREET: 261 Madison Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10016-2391
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/352.302
; FILING DATE: 12-JUL-1999
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 6-321705
; FILING DATE: 30-NOV-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 7-214206
; FILING DATE: 31-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldberg, Jules E
; REGISTRATION NUMBER: 24408
; REFERENCE/DOCKET NUMBER: JG-YY-4363PCT/D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 986-4090
; TELEFAX: 212 818-9479
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 273 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-352-302-4

Query Match 19.3%; Score 243.5; DB 3; Length 273;
Best Local Similarity 24.9%; Pred. No. 2.8e-18;
Matches 64; Conservative 55; Mismatches 85; Indels 53; Gaps 8;

QY 16 KPAIVSVGPASSFWMRWMAILLILICVGMVGLVVALGIVSWQRYVLDENENRGTLL-- 73
| : : : : :
Db 20 KTAAGTTFVSSWRYPAAVTLGVLCGLVTVILL-----ILQSVSDLIKQOANITH 75
| : : : : :
QY 74 -----QOLAKRFQYVVKOS--ELKGTFF--GHR----- 98
| : : : : :
Db 76 QEDILLEGQILAQRSKSAQESQKELKEMIFTLAKHLDKSKKLMELHRONLNLOEVLKE 135
| : : : : :
QY 99 -----GSPDITWRYGDSCTGFFRNLTWESKQYCTDMNATLTKIDNRNIVEYTK--A 151
| : : : : :
Db 136 AANSGPQODMLWHEENCYQPSGSGFNNKESQENCLSDAHLIKINSTDELFTIQMIA 195
| : : : : :
QY 152 RTHLRWGLSRQKSNVWKKWEDGSVISNMWFEFLDQGNM---NCAYFHNGKMHPTF 207
| : : : : :
Db 196 HSSPFWGLSMKRNYSWLMWEDGTPLEHLR-IQGAVSRYPSGTCAYTQRTGTFVAKN 254
| : : : : :

QY 208 CENKHYLMCEKAGMTK 224
| : : : : :
Db 255 CILTAFCICCKKANLIR 271

RESULT 17
US-09-055-095-4
; Sequence 4, Application US/09055095
; Patent No. 5945308
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Paterson, Chandra
; APPLICANT: Corley, Neil C.
; APPLICANT: Sather, Susan
; TITLE OF INVENTION: HUMAN OXIDIZED LDL RECEPTOR
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/055.095
; FILING DATE: Filed Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0500 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 270 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONING: 1902982
US-09-055-095-4

Query Match 19.2%; Score 242.5; DB 2; Length 270;
Best Local Similarity 25.2%; Pred. No. 3.5e-18;
Matches 66; Conservative 54; Mismatches 83; Indels 59; Gaps 9;

QY 11 NIKRKALVSVGASSEFWMRWMAILLILICVGMVGLVVALGIVSWQRYVLDENENRGT 70
| : : : : :
Db 18 NGKTAK-----GVSSWRYPAAVTLGVLCGLVTVILL-----ILQSVSDLIKQO 67
| : : : : :
QY 71 GTL-----QOLAKRFQYVVKOS--ELKGTFF--GHR----- 98
| : : : : :
Db 68 ANITHQEDILEGQILAQRSKSAQESQKELKEMIFTLAKHLDKSKKLMELHRONLNLO 127
| : : : : :
QY 99 -----GSPDITWRYGDSCTGFFRNLTWESKQYCTDMNATLTKIDNRNIVEYI 149
| : : : : :
Db 128 EVLKAANYSGPQODMLWHEENCYQPSGSGFNNKESQENCLSDAHLIKINSTDELFTI 187
| : : : : :
QY 150 K---ARTLLRWGLSRQKSNVWKKWEDGSVISNMWFEFLDQGNM---NCAYFHNGK 202
| : : : : :
Db 188 QMTAHSFPFWGLSMKRNYSWLMWEDGTPLEHLR-IQGAVSRYPSGTCAYTQRTGTF 246
| : : : : :

Db 247 VFAENCILTAFSIOCKKANILR 268

RESULT 20

US-08-772-440-8

Sequence 8, Application US/08772440

Patent No. 6046158

GENERAL INFORMATION:

APPLICANT: Aizumi, Kiyoshi

TITLE OF INVENTION: UNIQUE DENDRITIC CELL-ASSOCIATED C-TYPE

TITLE OF INVENTION: LECTINS, DECTIN-1 AND DECTIN-2; COMPOSITIONS AND USES

TITLE OF INVENTION: THEROOF

NUMBER OF SEQUENCES: 42

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/772,440

FILING DATE: CONCURRENTLY HEREWITH

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Parker, David L.

REGISTRATION NUMBER: 32,165

REFERENCE/DOCKET NUMBER: UTXD:493

TELECOMMUNICATION INFORMATION:

TELEPHONE: 512/418-3000

TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 176 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

US-08-772-440-8

Query Match 18.9%; Score 238.5; DB 3; Length 176;

Best Local Similarity 33.5%; Pred. No. 5.2e-18;

Matches 56; Conservative 24; Mismatches 74; Indels 13; Gaps 6;

Db 60 NYLDENENRTGLQOLAKRQCQYVVKOSBLKGFPGHKCSPCDTNWRYGDSCTGPFRR 119

Db 15 NPLSRNKENHKPTSSLDKAVP--SKASQTGGF--SQSCLP---NWIMGKSCYLFSS 68

QY 120 NLWESKQYCTDMNATLLKIDNINIVYIKAT--HLIR--WVGLSRQSNVYKWEKG 175

Db 69 GNSWYSGKRKRSQGLAHLKIDNSKEFEFTSOTSSHRINAFWGLSRNOSSEGFWEKG 128

QY 176 SVISENMFELDEQKGM--NCAYPHNGKMHPTFCENKHYLMCEK 219

Db 129 SAFFPNFQYRNTVPQESLHNCVHIGSEVYNQICNTSSYSICEKE 175

RESULT 21

US-08-772-440-31

Sequence 31, Application US/08772440

Patent No. 6046158

GENERAL INFORMATION:

APPLICANT: Aizumi, Kiyoshi

TITLE OF INVENTION: UNIQUE DENDRITIC CELL-ASSOCIATED C-TYPE

TITLE OF INVENTION: LECTINS, DECTIN-1 AND DECTIN-2; COMPOSITIONS AND USES

TITLE OF INVENTION: THEROOF

NUMBER OF SEQUENCES: 42

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/772,440

FILING DATE: CONCURRENTLY HEREWITH

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Parker, David L.

REGISTRATION NUMBER: 32,165

REFERENCE/DOCKET NUMBER: UTXD:493

TELECOMMUNICATION INFORMATION:

TELEPHONE: 512/418-3000

TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 31:

SEQUENCE CHARACTERISTICS:

LENGTH: 180 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

US-08-772-440-31

Query Match 18.9%; Score 238.5; DB 3; Length 180;

Best Local Similarity 33.5%; Pred. No. 5.3e-18;

Matches 56; Conservative 24; Mismatches 74; Indels 13; Gaps 6;

Db 60 NYLDENENRTGLQOLAKRQCQYVVKOSBLKGFPGHKCSPCDTNWRYGDSCTGPFRR 119

Db 19 NPLSRNKENHKPTSSLDKAVP--SKASQTGGF--SQSCLP---NWIMGKSCYLFSS 72

QY 120 NLWESKQYCTDMNATLLKIDNINIVYIKAT--HLIR--WVGLSRQSNVYKWEKG 175

Db 73 GNSWYSGKRKRSQGLAHLKIDNSKEFEFTSOTSSHRINAFWGLSRNOSSEGFWEKG 132

QY 176 SVISENMFELDEQKGM--NCAYPHNGKMHPTFCENKHYLMCEK 219

Db 133 SAFFPNFQYRNTVPQESLHNCVHIGSEVYNQICNTSSYSICEKE 175

RESULT 22

US-08-772-440-10

Sequence 10, Application US/08772440

Patent No. 6046158

GENERAL INFORMATION:

APPLICANT: Aizumi, Kiyoshi

TITLE OF INVENTION: UNIQUE DENDRITIC CELL-ASSOCIATED C-TYPE

TITLE OF INVENTION: LECTINS, DECTIN-1 AND DECTIN-2; COMPOSITIONS AND USES

TITLE OF INVENTION: THEROOF

NUMBER OF SEQUENCES: 42

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/772,440

FILING DATE: CONCURRENTLY HERewith
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Parker, David L.
REGISTRATION NUMBER: 32,165
REFERENCE/DOCKET NUMBER: UTXD-493
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 126 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-772-440-10

Query Match 17.6%; Score 221.5; DB 3; Length 126;
Best Local Similarity 36.0%; Pred. No. 2,2e-16;
Matches 45; Conservative 20; Mismatches 53; Indels 7; Gaps 3;

QY 102 CDTWRYGDCSCYGFPHNTLWESKQCTDMNATLLKIDNRIVEYIKART--HLIR-- 157
Db 1 CLPWIMHMGKSCYLFSPGNSWYGSKRHCSQIGAHLLKIDSKFEFEIESQTSR-NAF 60
QY 158 WYGISRQKSNVWVKWEDGSVISENMEFELEDGKNNM--NCAPFNKGMHPTFCENKHYL 214
Db 61 WIGLSRQSGPWMEGSAFFPNSFQVRNTVPOESLLHNCVMIHSEVYNQICNTSYS 120

QY 215 MCEK 219
Db 121 ICEK 125

RESULT 23
US-08-543-246B-9
Sequence 9, Application US/08543246B
Patent No. 6262244
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: DNA and amino acid sequence specific for
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSER: Michael W. Glynn
STREET: 564 Morris Avenue
CITY: Summit,
STATE: NJ
COUNTRY: US
ZIP: 07901-1027
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/543,246B
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/676,663
FILING DATE: 28-MAR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/02469
FILING DATE: 27-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/122,514
FILING DATE: 24-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Kassenoff, Melvyn M.
REGISTRATION NUMBER: 26,389
REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT
TELECOMMUNICATION INFORMATION:

TELEPHONE: 908-522-6927
TELEFAX: 908-522-6955
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 216 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-543-246B-9

Query Match 16.8%; Score 211.5; DB 3; Length 216;
Best Local Similarity 29.0%; Pred. No. 5.8e-15;
Matches 51; Conservative 35; Mismatches 57; Indels 33; Gaps 7;

QY 48 LVALGITSVQKQNYLQDENENRTGTLQQLAKPCQYVQKSEJLKFIFKHKSCPCDTNR 107
Db 68 IIMVAIWSAVFLNSL-----FNQEV--QIPLTESY---CGPCPKNWT 104

QY 108 YVGDSCYGFPHNTLWESKQCTDMNATLLKIDNRIVEYIKARTLIPWGLSRQ 164
Db 105 CYNKCYQFFDESKMYESQASCSQNASILKYSKEDQDLKYS---YHMGVYH 160

QY 165 KSNVWVKWEDGSVISENMEFELEDGKNNMCA-YFNHGXHPTFCENKHYLMCEK 219
Db 161 PTNGSWQWEDGSLSPNLLTILIEVQKG--DCALYASSFGYIENGCTPTNTYICMR 214

RESULT 24
US-08-543-246B-24
Sequence 24, Application US/08543246B
Patent No. 6262244
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: DNA and amino acid sequence specific for
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSER: Michael W. Glynn
STREET: 564 Morris Avenue
CITY: Summit,
STATE: NJ
COUNTRY: US
ZIP: 07901-1027
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/543,246B
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/676,663
FILING DATE: 28-MAR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/02469
FILING DATE: 27-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/122,514
FILING DATE: 24-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Kassenoff, Melvyn M.
REGISTRATION NUMBER: 26,389
REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-522-6955
TELEFAX: 908-522-6927
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 216 amino acids
TYPE: amino acid
STRANDEDNESS:

```

;
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: C-terminal
; US-08-543-246B-24

Query Match
Best Local Similarity 16.8%; Score 211.5; DB 3; Length 216;
Best Local Similarity 29.0%; Pred. No. 5.8e-15;
Matches 51; Conservative 35; Mismatches 57; Indels 33; Gaps 7;

Cy 48 IVALGIVSMQRYNDENERTGTQLQAKRFQCYVVKQSEIKETGHCSCPDITWR 107
Db 68 IIMAWMSAVFLNSL-----FNGEV--QIPLESTY---CGPCPKWIT 104
Cy 108 YYGDSYGFPHNLWTEESKQYCTDMNATLTKI--DNRNIVEYIKARTHLIRWGLSRQ 164
Db 105 CYKNNCYGFDESKWYESQASCMQSNLSLKVYSKEQDILKLVKS----YHMMGLVHI 160
Cy 165 KSNVWKWEDSGSVISENFBFLDEKGMNCA-YHNGKAPFTPCNKHYLMCKERK 219
Db 161 PTNGSMQWEDSGILSPNLLITIEQKG--DCALYASSFKGYIENGSTPTNTYICMQR 214

RESULT 25
US-08-543-246B-20
; Sequence 20, Application US/08543246B
; Patent No. 6262244
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: DNA and amino acid sequence specific for
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Michael W. Glynn
; ADDRESSER: No. 6262244artis Corporation
; STREET: 564 Morris Avenue
; CITY: Summit,
; STATE: NJ
; COUNTRY: US
; ZIP: 07901-1027
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; FILING DATE: US/08/543,246B
; APPLICATION NUMBER:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/676,663
; FILING DATE: 28-MAR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/02469
; FILING DATE: 27-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/122,514
; FILING DATE: 24-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Kassenoiff, Melvyn M.
; REGISTRATION NUMBER: 26,389
; REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-522-6927
; TELEFAX: 908-522-6955
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 134 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
```

```

;
; ANTI-SENSE: NO
; FRAGMENT TYPE: C-terminal
; US-08-543-246B-20

Query Match
Best Local Similarity 16.5%; Score 208; DB 3; Length 134;
Best Local Similarity 32.8%; Pred. No. 7.1e-15;
Matches 41; Conservative 29; Mismatches 45; Indels 10; Gaps 4;

Cy 99 CSPDITWRYYGDSYGFPHNLWTEESKQYCTDMNATLTKI--DNRNIVEYIKARTHL 155
Db 14 CGPCPKWICYKNNCYGFDESKWYESQASCMQSNLSLKVYSKEQDILKLVKS----69
Cy 156 IRWGLSRQKSNVWKWEDSGSVISENFBFLDEKGMNCA-YHNGKAPFTPCNKHYL 214
Db 70 YHMMGLVHIPTNGSMQWEDSGILSPNLLITIEQKG--DCALYASSFKGYIENGSTPTNTY 127
Cy 215 MCKERK 219
Db 128 ICWOR 132

RESULT 26
US-08-690-095-9
; Sequence 9, Application US/08690095
; Patent No. 5782648
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Au-Young, Janice
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Inocyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/690,095
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0110 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-885-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 179 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; LIBRARY: Genbank
; CLONING: 1398617
; US-08-690-095-9

Query Match
Best Local Similarity 15.5%; Score 195.5; DB 1; Length 179;
Best Local Similarity 24.6%; Pred. No. 2.4e-13;
Matches 48; Conservative 37; Mismatches 79; Indels 31; Gaps 6;

Cy 30 WRVMAILLILICGVAVGLVALGIWSVMQRNYLDENENERTGTQLQAKRFQCYVVKQSE 89
Db 9 WRLISGTGLICLSTL--NATLG-----LIKNSFTKLSIEPAF 44
```

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0Y      90 LKG-----TFXAHKSPCCDNNRYVSDSGYGFRRNULTWESKOYOTDNATLKIDNNI 145
Db      45 TPGRNIELOKSDSCCOEKRVGYFCNCYFISSEOKTWRSHRHCASQSKSLQLQNTDE 104
0Y      146 VEYIKARTHLIRWGVLGRKSNSEVWKEDGSYSNMTEFLDGKNMNC-AVFNGHGH 204
Db      105 LDPMSS-SQQFYWIGLSYESEHTAWLMENGSALSYLPPSFET-FNTKCIAYNNBNAL 162
0Y      205 PFGCNKHLYMCER 219
Db      163 DESCEDKNRYICKKQ 177

RESULT 27
US-08-650-578-2
; Sequence 2, Application US/08650578
; Patent No. 5811284
; GENERAL INFORMATION:
; APPLICANT: Chang, Chiwen
; APPLICANT: Aramburu Beltian, Jose
; APPLICANT: Lopez-Botet, Miguel
; APPLICANT: Phillips Jr., Joseph H.
; APPLICANT: Lanier, Lewis L.
; TITLE OF INVENTION: Purified Mammalian NK Antigens and
; TITLE OF INVENTION: Related Reagents
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSER: DNAX Research Institute
; STREET: 901 California Avenue
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/650,578
; FILING DATE:
; CLASSIFICATION: 5:4
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/175,339
; FILING DATE: 28-DEC-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Ching, Edwin P.
; REGISTRATION NUMBER: 34,090
; REFERENCE/DOCKET NUMBER: DX0351
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-852-9196
; TELEFAX: 415-496-1200
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 179 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-650-578-2

Query Match          15.5%; Score 195.5; DB 2; Length 179;
Best Local Similarity 24.6%; Pred. No. 2,4e-13;
Matches 48; Conservative 37; Mismatches 79; Indels 3.; Gaps 6

0Y      30 KRYMALILLILLCGMVGVGLAGIWSVMQRNYIQDENNKRTGTLQOLAKRFQCYVYKQSE 89
Db      9 KWLSISTLGITCLSL--MATLGI-----LTKSFTKLSTEPAF 44
0Y      90 LKG-----TFXGAKSPCDNNRYVSDSGYGFRRNULTWESKOYCTDNATLKIDNNI 145
Db      45 TGPENIELKDSOCSGOEKRWVGRCNCFYISEQKTWRSHRLCASQKSSLQLQNTDE 104
0Y      146 VEYIKARTHLIRWGVLGRKSNSEVWKEDGSYSNMTEFLDGKNMNC-AVFNGHGXH 204

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[illegible]

```
RESULT 29
US-09-113-788-3
; Sequence 3, Application US/09113788
; Patent No. 5969104
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Goli, Surya K.
; APPLICANT: Hillman, Jennifer L.
; TITLE OF INVENTION: NOVEL HUMAN C-TYPE LECTIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/113,788
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/688,342
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0095-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-845-4166
; TELEFAX: 415-845-0555
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 179 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; LIBRARY: Genbank
; CLONE: 1098616
; US-09-113-788-3

Query Match          15.5%; Score 195.5; DB 2; Length 179;
Best Local Similarity 24.6%; Pred. No. 2.4e-13;
Matches 48; Conservative 37; Mismatches 79; Indels 31; Gaps 6;

QY 30 WRVVALILILICGVNVGVVALGIWSVWQRYVLODENENRTGLLOLAKRFQYVYQSE 89
D 9 WRLISGLIGLICSL--MATLGI-----LKNSTKLSIEPAF 44
QY 90 LKG---TFKGHKSPCDTWRYRGDCYGFRRNLTWESKQYCTDMATLKIENRNI 145
D 45 TPGENIELQSDSCCSQEKWVGRCYCFISSQKTNESRHLCAQSKSLLOLQNTDE 104
QY 146 VEYIKARTHLIRWVGLSRQKSNVWKMWDGVSISENMFLELDGKNNNC-AYFHNGKMH 204
D 105 LDFWSS-SQGFYWGLSYSESHITWIMWNSALSQYLPSPFET-FNTNCAIAYPNNGAL 162
QY 205 PTFCENKHYLMCEK 219
D 163 DESCEDKRYICKQ 177

RESULT 30
US-09-113-789-9
; Sequence 9, Application US/09113789
```

```
; Patent No. 6034219
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Au-Young, Janice
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/113,789
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/690,095
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0110 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-845-4166
; TELEFAX: 415-845-0555
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 179 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; LIBRARY: Genbank
; CLONE: 1098617
; US-09-113-789-9

Query Match          15.5%; Score 195.5; DB 3; Length 179;
Best Local Similarity 24.6%; Pred. No. 2.4e-13;
Matches 48; Conservative 37; Mismatches 79; Indels 31; Gaps 6;

QY 30 WRVVALILILICGVNVGVVALGIWSVWQRYVLODENENRTGLLOLAKRFQYVYQSE 89
D 9 WRLISGLIGLICSL--MATLGI-----LKNSTKLSIEPAF 44
QY 90 LKG---TFKGHKSPCDTWRYRGDCYGFRRNLTWESKQYCTDMATLKIENRNI 145
D 45 TPGENIELQSDSCCSQEKWVGRCYCFISSQKTNESRHLCAQSKSLLOLQNTDE 104
QY 146 VEYIKARTHLIRWVGLSRQKSNVWKMWDGVSISENMFLELDGKNNNC-AYFHNGKMH 204
D 105 LDFWSS-SQGFYWGLSYSESHITWIMWNSALSQYLPSPFET-FNTNCAIAYPNNGAL 162
QY 205 PTFCENKHYLMCEK 219
D 163 DESCEDKRYICKQ 177

RESULT 31
US-09-111-470-10
; Sequence 10, Application US/09111470
; Patent No. 6277959
; GENERAL INFORMATION:
; APPLICANT: Valadeau, Jenny
; APPLICANT: Ravel, Odile
; APPLICANT: Bates, Elizabeth E.M.
```

```

/ APPLICANT: Ford, John
/ APPLICANT: Saeland, Sem
/ APPLICANT: Lebecque, Serge J.E.
/ TITLE OF INVENTION: Mammalian Membrane Protein Genes;
/ TITLE OF INVENTION: Related Reagents
/ NUMBER OF SEQUENCES: 11
/ CORRESPONDENCE ADDRESS:
/ ADDRESS: DNAX Research Institute
/ STREET: 901 California Avenue
/ CITY: Palo Alto
/ STATE: California
/ COUNTRY: USA
/ ZIP: 94304-1104
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/111,470
/ FILING DATE: 08-JUL-1998
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 60/053,080
/ FILING DATE: 09-JUL-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Ching, Edwin P.
/ REGISTRATION NUMBER: 34,090
/ REFERENCE/DOCKET NUMBER: SF0695
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (650) 852-9195
/ TELEFAX: (650) 496-1200
/ INFORMATION FOR SEQ ID NO: 10:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 273 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-09-111-470-10

Query Match      15.2%; Score 191.5; DB 3; Length 273;
Best Local Similarity 28.6%; Pred. No. 1.2e-12;
Matches 48; Conservative 32; Mismatches 61; Indels 27; Gaps 8;

QY 73 LQGLAKRFGQYV-----KQSELRKTFKGHKCPDQTNWRYGDSCTGFRRNLTFEESK 127
DB 111 VQDLKRLTCQVATLNNNGSEASTEGT-----C--CPVNWVHEHSDSCYWFHSGSMAEAE 163
QY 128 QYCTDMNATLTKIDNRNIVEYI-KARTHLIRWGLSROKSNRYWKEGDSVISNMFPEFL 186
DB 164 KICQJKNHVLVINSREONFVQKILGSAATYMGSLSDPEG--AMKRVUDGTDYATG-FQNW 220
QY 187 EDGR-----GNMNCAYFH-NGKXHPFCENKHYLMCEKAKMT 223
DB 221 KPGQPDWQGHGLGGEDCAHFHPDGKMNDDVCQRPYHWVCEALGQGT 268

RESULT 32
US-08-688-342-4
/ Sequence 4, Application US/08688342
/ Patent No. 5871964
/ GENERAL INFORMATION:
/ APPLICANT: Au-Young, Janice
/ APPLICANT: Cocks, Benjamin G.
/ APPLICANT: Goll, Surya K.
/ APPLICANT: Hillman, Jennifer L.
/ TITLE OF INVENTION: NOVEL HUMAN C-TYPE LECTIN
/ NUMBER OF SEQUENCES: 5
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Incyte Pharmaceuticals, Inc.
/ STREET: 3174 Porter Drive
/ CITY: Palo Alto
/ STATE: CA

```

```

/ COUNTRY: US
/ ZIP: 94304
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq Version 1.5
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/688,342
/ FILING DATE: Filed Herewith
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Billings, Lucy J.
/ REGISTRATION NUMBER: 36,749
/ REFERENCE/DOCKET NUMBER: PF-0095-1 CIP
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 415-855-0555
/ TELEFAX: 415-845-4166
/ INFORMATION FOR SEQ ID NO: 4:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 292 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ IMMEDIATE SOURCE:
/ LIBRARY: GenBank
/ CLONE: 1235724
/ US-08-688-342-4

Query Match      15.2%; Score 191.5; DB 2; Length 292;
Best Local Similarity 28.6%; Pred. No. 1.3e-12;
Matches 48; Conservative 32; Mismatches 61; Indels 27; Gaps 8;

QY 73 LQGLAKRFGQYV-----KQSELRKTFKGHKCPDQTNWRYGDSCTGFRRNLTFEESK 127
DB 130 VQDLKRLTCQVATLNNNGSEASTEGT-----C--CPVNWVHEHSDSCYWFHSGSMAEAE 182
QY 128 QYCTDMNATLTKIDNRNIVEYI-KARTHLIRWGLSROKSNRYWKEGDSVISNMFPEFL 186
DB 183 KICQJKNHVLVINSREONFVQKILGSAATYMGSLSDPEG--AMKRVUDGTDYATG-FQNW 239
QY 187 EDGR-----GNMNCAYFH-NGKXHPFCENKHYLMCEKAKMT 223
DB 240 KPGQPDWQGHGLGGEDCAHFHPDGKMNDDVCQRPYHWVCEALGQGT 287

RESULT 33
US-09-113-788-4
/ Sequence 4, Application US/09113788
/ Patent No. 5969104
/ GENERAL INFORMATION:
/ APPLICANT: Au-Young, Janice
/ APPLICANT: Cocks, Benjamin G.
/ APPLICANT: Goll, Surya K.
/ APPLICANT: Hillman, Jennifer L.
/ TITLE OF INVENTION: NOVEL HUMAN C-TYPE LECTIN
/ NUMBER OF SEQUENCES: 5
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Incyte Pharmaceuticals, Inc.
/ STREET: 3174 Porter Drive
/ CITY: Palo Alto
/ STATE: CA
/ COUNTRY: US
/ ZIP: 94304
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq Version 1.5
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/113,788
/ FILING DATE:
/ PRIOR APPLICATION DATA:

```

APPLICATION NUMBER: 08/688,342
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0095-1 CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 292 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 1235724
US-09-113-788-4

Query Match 15.2%; Score 191.5; DB 2; Length 292;
Best Local Similarity 28.5%; Pred. No. 1.3e-12;
Matches 48; Conservative 32; Mismatches 61; Indels 27; Gaps 8;

QY 73 LQQLAKRFQYVV-----KQSELKGTFGKHKSPCDTNRWRYGDSYCGYFPRHNLTWESK 127
DB 130 VQDLKLTLCQVATLNNSEBASTBT-----C--CPVNWVHQDSCTYFSGSGMWAFAE 182
QY 128 QYCTDMATLLKIDNRNIVETI-KARTHLIRWGLSRQKSNVWKKWEDGSVISNMFEFL 186
DB 183 KYCQKNAHLVINSREQNFVQKYLGSAYTWMGLSDPEG--AWKWVDGTDYATG-FQNW 239
QY 187 EDGK-----GNMCAVPH-NGKHPPTPCNKHYLMCERKAGMT 223
DB 240 KPGQPDWQHGGLGGSDCAHFHPDGWMDVCCQRPYHWCEAGLGQT 287

RESULT 34
US-09-111-470-4
Sequence 4, Application US/09111470
Patent No. 6277959
GENERAL INFORMATION:
APPLICANT: Valladeau, Jenny
APPLICANT: Ravel, Odile
APPLICANT: Bates, Elizabeth E.M.
APPLICANT: Ford, John
APPLICANT: Saeland, Sem
APPLICANT: Lebecque, Serge J.E.
TITLE OF INVENTION: Mammalian Membrane Protein Genes;
TITLE OF INVENTION: Related Reagents
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: DNA Research Institute
STREET: 901 California Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1104
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/111,470
FILING DATE: 08-JUL-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/053,080
FILING DATE: 09-JUL-1997
ATTORNEY/AGENT INFORMATION:
NAME: Ching, Edwin F.

REGISTRATION NUMBER: 34,090
REFERENCE/DOCKET NUMBER: SF0695
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 852-9196
TELEFAX: (650) 496-1200
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 316 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-111-470-4

Query Match 15.1%; Score 190; DB 3; Length 316;
Best Local Similarity 29.1%; Pred. No. 2.1e-12;
Matches 48; Conservative 30; Mismatches 63; Indels 24; Gaps 8;

QY 73 LQQLAKRFQYVV-----KQSELKGTFGKHKSPCDTNRWRYGDSYCGYFPRHNLTWESKQYC 130
DB 157 VQDLKLTLCQVATLNNASTBT-----C--CPVNWVHQDSCTYFSGSGMWAFAEKYC 209
QY 131 TDNATLLKIDNRNIVETI-KARTHLIRWGLSRQKSNVWKKWEDGSVISNMFEFLBDG 189
DB 210 QLKNAHLVINSREQNFVQKYLGSAYTWMGLSDPEG--AWKWVDGTDYATG-FQNWTEG 266
QY 190 K-----GNMCAVPH-NGKHPPTPCNKHYLMCERKAGMT 223
DB 267 QPDDWQHGGLGGSDCAHFHPDGWMDVCCQRPYHWCEAGLGQT 311

RESULT 35
US-08-722-126A-10
Sequence 10, Application US/08722126A
Patent No. 6034227
GENERAL INFORMATION:
APPLICANT: PECHT, Israel
APPLICANT: GUTMANN, Marcelo D.
APPLICANT: TAL, Michael
TITLE OF INVENTION: A DNA MOLECULE ENCODING A MAST CELL
TITLE OF INVENTION: FUNCTION-ASSOCIATED ANTIGEN (MAPA)
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
STREET: 419 Seventh Street N.W., Ste. 300
CITY: Washington
STATE: D.C.
COUNTRY: UNITED STATES OF AMERICA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/722,126A
FILING DATE: 08-OCT-1996
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04258
FILING DATE: 06-APR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 11,109257
FILING DATE: 08-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: PECHT=1A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 628-5197
TELEFAX: (202) 737-3528
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 129 amino acids

TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-722-126A-10

Query Match 14.9%; Score 187.5; DB 3; Length 129;
Best Local Similarity 31.8%; Pred. No. 1.1e-12;
Matches 41; Conservative 22; Mismatches 53; Indels 13; Gaps 3;

QY 102 CDTWRYXGSCYGFPHNLTWESKOYCTDMATLTKIDNRNIVY-
DB 1 CPVNWVERGSGCYTFRSDGLTWALADQYCCQENHILVINSREDCVVERSGPHNIG 60
QY 161 LSRKSNVWKMEDGSGVISENM-----FEFLDGGKNNKCAVFNHKKHPTFCN 210
DB 61 LTDRDGS--WKWVDGTYSRYRNWAFQPDNMQHGEGGECALISDGHWNDFCCQ 118
QY 211 KHYLMCEK 219
DB 119 VNRWVCEK 127

RESULT 36
PCT-US95-04258-10
Sequence 10, Application PC/TUS9504258
GENERAL INFORMATION:

APPLICANT:
TITLE OF INVENTION: A DNA MOLECULE ENCODING A MAST CELL
TITLE OF INVENTION: FUNCTION-ASSOCIATED ANTIGEN (MAFA)
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEWMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04258
FILING DATE: 06-APR-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: IL 109257
FILING DATE: 08-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: PECHT-1 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633

INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:
LENGTH: 129 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-04258-10

Query Match 14.9%; Score 187.5; DB 5; Length 129;
Best Local Similarity 31.8%; Pred. No. 1.1e-12;
Matches 41; Conservative 22; Mismatches 53; Indels 13; Gaps 3;

QY 102 CDTWRYXGSCYGFPHNLTWESKOYCTDMATLTKIDNRNIVY-
DB 1 CPVNWVERGSGCYTFRSDGLTWALADQYCCQENHILVINSREDCVVERSGPHNIG 60

QY 161 LSRKSNVWKMEDGSGVISENM-----FEFLDGGKNNKCAVFNHKKHPTFCN 210
DB 61 LTDRDGS--WKWVDGTYSRYRNWAFQPDNMQHGEGGECALISDGHWNDFCCQ 118

QY 211 KHYLMCEK 219
DB 119 VNRWVCEK 127

RESULT 37
US-08-722-126A-5
Sequence 5, Application US/08722126A
Patent No. 6034227
GENERAL INFORMATION:

APPLICANT: PECHT, Israel
APPLICANT: GUTHMANN, Marcelo D.
TITLE OF INVENTION: A DNA MOLECULE ENCODING A MAST CELL
TITLE OF INVENTION: FUNCTION-ASSOCIATED ANTIGEN (MAFA)
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEWMARK, P.L.L.C.
STREET: 419 Seventh Street N.W., Ste. 300
CITY: Washington
STATE: D.C.
COUNTRY: UNITED STATES OF AMERICA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/722,126A
FILING DATE: 08-OCT-1996
CLASSIFICATION: 536
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04258
FILING DATE: 06-APR-1995
PRIOR APPLICATION DATA:

ERROR APPLICATION DATA:
APPLICATION NUMBER: IL 109257
FILING DATE: 08-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: PECHT-1A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 628-5197
TELEFAX: (202) 737-3528
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 128 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-722-126A-5

Query Match 13.9%; Score 175.5; DB 3; Length 188;
Best Local Similarity 26.9%; Pred. No. 3.8e-11;
Matches 61; Conservative 32; Mismatches 83; Indels 51; Gaps 12;

QY 1 MODEGTYTLNKTFRKPAVSGPASFWRVMAILLILCVGVAGVALGIMSVQGN 60
DB 1 MADNSIYITLTL-----PAPRVQDDSR--WKYKA-VLHRPCVSYLV-WVALGLITVILMS 52

QY 61 YLQDENENRTGLTQOLARFCQYVYKQSELKGTFRGHKCSPPDITWRYGDSYGFPHN 120
DB 53 LILYQRTLCGSS-----RG-FWCSQCSRCFPLMNRNGSHCYFPMSEK 93

QY 121 LTWESKOYCTDMATLTKIDNRNIVY-
DB 94 EDMNSLAFCAKDGSHLITFDNGVNLFGYVGEDEFY---WIGL---RDIDGWNRMEDQ 147

QY 176 ----SVISNNMFELEDGKNNMCATFHNGKMHPTCEKXHYLNCER 218
Db 148 ALSLISLNSVQ-----KCGTHRCGLHASSCEVALQWICER 185

RESULT 38

PCT-US95-04258-5
Sequence 5, Application PC/TUS9504258

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: A DNA MOLECULE ENCODING A MAST CELL

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESS: BROWDY AND NEWMARK

STREET: 419 Seventh Street, N.W., Suite 300

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentln Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/04258

FILING DATE: 06-APR-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: IL 109257

FILING DATE: 08-APR-1994

ATTORNEY/AGENT INFORMATION:

NAME: BROWDY, Roger L.

REGISTRATION NUMBER: 25,618

REFERENCE/DOCKET NUMBER: PECT=1 PCT

TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-628-5197

TELEFAX: 202-737-3528

TELEX: 248633

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 188 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULAR TYPE: protein

PCT-US95-04258-5

Query Match

Best Local Similarity 26.9%; Pred. No. 3.8e-11; Length 188;

Matches 61; Conservative 33; Mismatches 83; Indels 51; Gaps 12;

QY 1 MODEGYITNITRKALVSVGASFWRRVMAIIILICVGNVGLVGLVSVQNRN 60

Db 1 MAONSIYSTLEL---PAAPRVQDSR--WKVKA-VLHRCVSYLY-MVALGLLTVILMS 52

QY 61 YLDENENRRTGLQOLAKRCQYVYVXSELKGTGKTKGSPQTNMRYVYDSCYGFPRHN 120

Db 53 LLLYORTLCGS-----KG-FMCQCSRCPLWLRNQSCHCYFEMER 93

QY 121 LTWESKQOCTDMNATLKI-DNENI---VEYIKARTHLIRWVJLSRQKSEVWKMEDG- 175

Db 94 RDNWSSILKFCADKSGSHLLTFPDNGVNLFPQYVGEDFY---WIGL---RIDGWRMDGP 147

QY 176 ---SVISENNFELEDGKNNMCATFHNGKMHPTCEKXHYLNCER 218

Db 148 ALSLISLNSVQ-----KCGTHRCGLHASSCEVALQWICER 185

RESULT 39

US-08-690-095-8

Sequence 8, Application US/08690095

Patent No. 5792648

GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.

APPLICANT: Au-Yang, Janice

APPLICANT: Goli, Surya K.

TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESS: Incyte Pharmaceuticals, Inc.

STREET: 3174 Porter Drive

CITY: Palo Alto

STATE: CA

COUNTRY: U.S.

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ Version 1.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/690,095

FILING DATE: Filed Herewith

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0110 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 233 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: peptide

IMMEDIATE SOURCE:

LIBRARY: GenBank

CLONE: 35057

US-08-690-095-8

Query Match

Best Local Similarity 13.8%; Score 174; DB 1; Length 233;

Matches 44; Conservative 28; Mismatches 86; Indels 26; Gaps 4;

QY 36 ILLICVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVV 95

Db 75 ILLICVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVVGVV 112

QY 96 GAKCSPDQNNWRYVYDSCYGFPRHNLTWESKQOCTDMNATLKI-DNENI---VEYIKARTHLIRWVJLSRQKSEVWKMEDG- 155

Db 113 ARQCHQCPREMITYSMSCYIGKERTWESLACTSKXSSLSLNEEMKRLSLSP- 171

QY 156 IRWVGJLSRQKSEVWKMEDGVSISENFELEDGKNNMCATFHNGKMHPTCEKXHYLM 215

Db 172 SSMIGVFRNSHPWVTWNGLAFKH--EIKSDNALNCAVQLVWRLKSAQCGSSIIYH 228

QY 216 CERK 219

Db 229 CERK 232

RESULT 40

US-09-113-789-8

Sequence 8, Application US/09113789

Patent No. 6034219

GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.

APPLICANT: Au-Young, Janice

APPLICANT: Goli, Surya K.

TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESS: Incyte Pharmaceuticals, Inc.


```

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/543,246B
FILING DATE:
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 07/676,663
FILING DATE: 28-MAR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/02469
FILING DATE: 27-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/122,514
FILING DATE: 24-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Kasenoff, Melvyn M.
REGISTRATION NUMBER: 26,389
REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-522-6927
TELEFAX: 908-522-6955
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 233 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: C-terminal
US-08-543-246B-21

```

```

Query Match      13.8%; Score 174; DB 3; Length 233;
Best Local Similarity 23.9%; Pred. No. 7.5e-11;
Matches 44; Conservative 28; Mismatches 86; Indels 26; Gaps 4;

```

```

QY 36 ILILICGMVYGLVALGIWSWQGRNYLQDENENRTGLQLAKRFQYVVKOSLKGFK 95
DB 75 ILGLICILIMASVTTI--VLPSTLIQRHNSSLNTRQ-----K 112
QY 96 GHKSPCDTMRYYGDSYGFPRHNLWESKQYCTDNATLIXIDNRNIVEYIKARTHL 155
DB 113 ARHCGHCPBEWITYSNSCYIIGKERRTWESILACTSNSSLIDMBEEKKFLSTISP- 171
QY 156 IRWVGLSRQKSNWYKWDGVSISENMFPELEDGKGNKCAFFHNGKHPFCENKTYLM 215
DB 172 SSWIGVFRNSHHPWTWNGLAFKH---EKDSDAELNCAYLVQVNRILKSAQCGSIIYH 228
QY 216 CERK 219
DB 229 CKHK 232

```

```

RESULT 43
US-08-690-095-6
Sequence 6, Application US/08690095
Patent No. 5792648
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Au-Young, Janice
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSER: Inocyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

```

```

COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/690,095
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy C.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0110 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-845-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 231 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: Genbank
US-08-690-095-6

```

```

Query Match      13.2%; Score 167; DB 1; Length 231;
Best Local Similarity 22.8%; Pred. No. 4.3e-10;
Matches 43; Conservative 32; Mismatches 86; Indels 28; Gaps 4;

```

```

QY 31 RNVALILILICGMVGLVALGIWSWQGRNYLQDENENRTGLQLAKRFQYVVKOSL 90
DB 70 KLTAEVIGLIC---IYLVATVLTLYLIPFLQNNSSPVTRQ----- 109
QY 91 KGTFGKHGSPCDTMRYYGDSYGFPRHNLWESKQYCTDNATLIXIDNRNIVEYIK 150
DB 110 ---KARHCHCEBEWITYSNSCYIIGKERRTWESILACTSNSSLIDMBEEKKFL- 164
QY 151 ARTHLIRWVGLSRQKSNWYKWDGVSISENMFPELEDGKGNKCAFFHNGKHPFCEN 210
DB 165 ASILPSWIGVFRNSHHPWTWNGLAFKH---KIDSDAELNCAYLVQVNRILKSAQCGS 221
QY 211 KHYLMCERK 219
DB 222 SMTHCHCKH 230

```

```

RESULT 44
US-09-113-789-6
Sequence 6, Application US/09113789
Patent No. 6034219
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Au-Young, Janice
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSER: Inocyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/113,789
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/690,095

```


RESULT 49

US-08-543-246B-19

Sequence 19, Application US/08543246B

Patent No. 6262244

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: DNA and amino acid sequence specific for

TITLE OF INVENTION: natural killer cells

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Michael W. Glynn

ADDRESSEE: No. 6262244artis Corporation

STREET: 564 Morris Avenue

CITY: Summit,

STATE: NJ

COUNTRY: US

ZIP: 07901-1027

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/543,246B

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/676,663

FILING DATE: 28-MAR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/02469

FILING DATE: 27-MAR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/122,514

FILING DATE: 24-SEP-1993

ATTORNEY/AGENT INFORMATION:

NAME: Kasseno, Melvyn M.

REGISTRATION NUMBER: 26,389

REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT

TELECOMMUNICATION INFORMATION:

TELEPHONE: 908-522-6927

TELEFAX: 908-522-6955

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 135 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ANTI-SENSE: NO

FRAGMENT TYPE: C-terminal

US-08-543-246B-19

Query Match 12.9%, Score 163, DB 3, Length 135;

Best Local Similarity 27.6%, Pred. No. 5.4e-10;

Matches 35, Conservative 19, Mismatches 69, Indels 4, Gaps 2;

QY 93 TFFKHKSPCDTNRYYDCSCYGFRRHLTWESKQYCTDNATLTKIDNINVEYIKAR 152
DB 12 TQKARHCHCEBEWITYSNCTYIGKERTWESILACTSKNSLSIDNEBEIKFL-AS 70
QY 153 THL-RWVGLSHQKSNVWKMEDSVISENMEFLDEGKNNCAVFNHGMKHPFCENKH 212
DB 71 ILSSWIGVFRNSHHFWTLNGLAFKH---KIKSDNALINCAVLQVNRKLSAQCGSSM 127
QY 213 YLMGERK 219
DB 128 IYHCKHK 134

RESULT 50

US-08-543-246B-18

Sequence 18, Application US/08543246B

Patent No. 6262244

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: DNA and amino acid sequence specific for

TITLE OF INVENTION: natural killer cells

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Michael W. Glynn

ADDRESSEE: No. 6262244artis Corporation

STREET: 564 Morris Avenue

CITY: Summit,

STATE: NJ

COUNTRY: US

ZIP: 07901-1027

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/543,246B

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/676,663

FILING DATE: 28-MAR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/02469

FILING DATE: 27-MAR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/122,514

FILING DATE: 24-SEP-1993

ATTORNEY/AGENT INFORMATION:

NAME: Kasseno, Melvyn M.

REGISTRATION NUMBER: 26,389

REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT

TELECOMMUNICATION INFORMATION:

TELEPHONE: 908-522-6927

TELEFAX: 908-522-6955

INFORMATION FOR SEQ ID NO: 18:

SEQUENCE CHARACTERISTICS:

LENGTH: 120 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ANTI-SENSE: NO

FRAGMENT TYPE: C-terminal

US-08-543-246B-18

Query Match 12.5%, Score 158, DB 3, Length 120;

Best Local Similarity 27.3%, Pred. No. 1.6e-09;

Matches 33, Conservative 19, Mismatches 65, Indels 4, Gaps 2;

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DB 3 CGHCEBEWITYSNCTYIGKERTWESILACTSKNSLSIDNEBEIKFL-SSW 61
QY 159 VGLSHQKSNVWKMEDSVISENMEFLDEGKNNCAVFNHGMKHPFCENKH 218
DB 62 IGVFRNSHHFWTLNGLAFKH---ELKSDNALINCAVLQVNRKLSAQCGSSIT 118
QY 219 K 219
DB 119 K 119

Search completed: December 3, 2003, 08:48:26
Job time : 23 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 3, 2003, 08:46:07 ; Search time 31. Seconds

(without alignments)
1373.879 Million cell updates/sec

Title: US-09-903-190-97

Perfect score: 1261

Sequence: 1 MQBBDGYITLNTKPKNAV.....NKHYIMCRKAGTYVDLP 229

Scoring table:

BLOSUM62

Searched: 684280 seqs, 185983659 residues

Total number of hits satisfying chosen parameters: 684280

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing First 100 summaries

Database :

Published Applications AA:*

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3: /cgn2_6/prodata/1/pubppa/US06_NEW_PUB.pep:*
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18: /cgn2_6/prodata/1/pubppa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1253	99.4	229	9	US-09-989-722-424
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4	1253	99.4	229	9	US-09-989-279-424
5	1253	99.4	229	9	US-09-989-727-424
6	1253	99.4	229	10	US-09-989-731-424
7	1253	99.4	229	10	US-09-989-732-424
8	1253	99.4	229	10	US-09-991-073-424
9	1253	99.4	229	10	US-09-991-442-424
10	1253	99.4	229	10	US-09-991-163-424
11	1253	99.4	229	10	US-09-993-604-424
12	1253	99.4	229	10	US-09-990-456-424
13	1253	99.4	229	10	US-09-989-721-424
14	1253	99.4	229	10	US-09-992-598-424
15	1253	99.4	229	10	US-09-989-293A-424

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17	1253	99.4	229	10	US-09-990-444-424	Sequence 424, App
18	1253	99.4	229	10	US-09-991-181-424	Sequence 424, App
19	1253	99.4	229	10	US-09-989-730-424	Sequence 424, App
20	1253	99.4	229	10	US-09-990-436-424	Sequence 424, App
21	1253	99.4	229	10	US-09-993-687-424	Sequence 424, App
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91 1253 99.4 229 12 US-10-145-959-522 Sequence 522, App
92 1253 99.4 229 12 US-10-146-724-522 Sequence 522, App
93 1253 99.4 229 12 US-10-146-725-522 Sequence 522, App
94 1253 99.4 229 12 US-10-146-795-522 Sequence 522, App
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98 1253 99.4 229 12 US-10-147-506-522 Sequence 522, App
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ALIGNMENTS

RESULT 1
US-09-903-190-97
Sequence 97, Application US/09903190
Publication No. US20030162176A1
GENERAL INFORMATION:
APPLICANT: Dumas Wilne Edwards, Jean-Baptiste
APPLICANT: Duclet, Aymeric
TITLE OF INVENTION: Complementary DNAs
FILE REFERENCE: GENSET.021A
CURRENT APPLICATION NUMBER: US/09/903,190
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: US/09/247,155A
PRIOR FILING DATE: 1999-02-09
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/074,121
PRIOR FILING DATE: EARLIER FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/081,563
PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-13
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/096,116
PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/099,273
PRIOR FILING DATE: EARLIER FILING DATE: 1998-10-04
NUMBER OF SEQ ID NOS: 182
SOFTWARE: Patent.pm
SEQ ID NO 97
LENGTH: 229
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SIGNAL
LOCATION: -47...-1
US-09-903-190-97

Query Match 100.0%; Score 1261; DB 12; Length 229;
Best Local Similarity 100.0%; Pred. No. 6.3e-120;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
US-09-989-722-424

Sequence 424, Application US/09989722
Patent No. US20020072067A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar C.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Peoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C63
CURRENT APPLICATION NUMBER: US/09/989,722
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
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PRIOR FILING DATE: 1998-06-04
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PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
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PRIOR APPLICATION NUMBER: 60/090254
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PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090353
PRIOR FILING DATE: 1998-06-23

PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
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PRIOR APPLICATION NUMBER: 60/090535
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PRIOR FILING DATE: 1998-06-24
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PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4% Score 1253; DB 9; Length 229;
Best Local Similarity 99.6%; Pred. No. 4.1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYTTNIIKIRKPAIVSVGPASSFWFVMAIIILICGVAVGVALGIVSWORN 60
DB 1 MODEDGYTTNIIKIRKPAIVSVGPASSFWFVMAIIILICGVAVGVALGIVSWORN 60
QY 61 YLODBENRGTITLOOLAKFCQYVYVVOSELMKGTFRGKSCPDITNWRYYGSCYCFEYFN 120
DB 61 YLODBENRGTITLOOLAKFCQYVYVVOSELMKGTFRGKSCPDITNWRYYGSCYCFEYFN 120
QY 121 LTWESKQYCTDMNATTLIKINRNIVETIKARTHLIRWVGSROKSNFVWVKWEDSVYSE 180
DB 121 LTWESKQYCTDMNATTLIKINRNIVETIKARTHLIRWVGSROKSNFVWVKWEDSVYSE 180
QY 181 NMFEFLDGKGNMCAVFNHNGKAPTPCENKRYLZMCKERKAMTKVDLP 229

DB 181 NMEFFEDGKNNMCAVFNHGXKHEPTCEKNHILMCRKAGXTYDLP 229

RESULT 3

US-09-989-723-424

Sequence 424: Application US/09989723

Patent No. US20020072032A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnovers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Garber, Hanspeter

APPLICANT: Geritsen, Macy E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kijavich, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zhen

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE REFERENCE: P2730P1C62

CURRENT APPLICATION NUMBER: US/09/989,723

CURRENT FILING DATE: 2001-11-19

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065511

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25

PRIOR APPLICATION NUMBER: 60/078910

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PRIOR APPLICATION NUMBER: 60/083322

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PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 9; Length 229;
Best Local Similarity 99.6%; Pred. No. 4, 1e-115;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITLNIKIKREPAIVSVGPASSPFMMRVMAIIILICVGMVVGVALGIMSVQMN 60
DB 1 MODEDGYITLNIKIKREPAIVSVGPASSPFMMRVMAIIILICVGMVVGVALGIMSVQMN 60
QY 61 YLQDENENRTGTLOCLARPCQYVYKQSEIKTFFGHGHCSPEDTTRWRYGSDCYFFPHN 120
DB 61 YLQDENENRTGTLOCLARPCQYVYKQSEIKTFFGHGHCSPEDTTRWRYGSDCYFFPHN 120
QY 121 LTWESKQCTDMNATLTKIDRNIVEYIKATHTLIRWGLSRQSNENWKEWEDGSVISE 180

DB 121 LTWESKQCTDMNATLTKIDRNIVEYIKATHTLIRWGLSRQSNENWKEWEDGSVISE 180
QY 181 NMEFLEDGKNNMCAYFFNGKXHPFCEKXHYLMGCRGAMTKVDLP 229
DB 181 NMEFLEDGKNNMCAYFFNGKXHPFCEKXHYLMGCRGAMTKVDLP 229

RESULT 4
US-09-989-279-424
Sequence 424, Application US/09989279
Patent No. US20020072496A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bostein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Eaton, Dar L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaudi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Nadler, Mary A.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Pan, James
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Collin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin

TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C56
CURRENT FILING DATE: 2001-11-19
PRIOR FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: US/09/989,279
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 9; Length 229;
Best Local Similarity 99.6%; Pred. No. 4.1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITLTKRKPLVSVGPASSFWRYMALILLILCVGKYVGVVAIGTMSYXORN 60
DB 1 MODEDGYITLTKRKPLVSVGPASSFWRYMALILLILCVGKYVGVVAIGTMSYXORN 60

QY 61 YLQDENNRRTTLOQAKRFOYVVKOSLKGTKGKHGSPCDNNMRYGDSYGFRRH 120
DQ 61 YLQDENNRRTTLOQAKRFOYVVKOSLKGTKGKHGSPCDNNMRYGDSYGFRRH 120
QY 121 LTMESKQYCTDMNATLTKINDENIYERIKARTHLIRWVGLSRKSNWMEWEGSYISE 180
DQ 121 LTMESKQYCTDMNATLTKINDENIYERIKARTHLIRWVGLSRKSNWMEWEGSYISE 180
QY 181 NMEFFLDGKGNMCAVFNHNGKMPITPCENKHYLMCEKXAGMTXVDLP 229
DQ 181 NMEFFLDGKGNMCAVFNHNGKMPITPCENKHYLMCEKXAGMTXVDLP 229
RESULT 5
US-09-989-727-424
Sequence 424, Application US//09989727
Patent No. US20020072497A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary B.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavich, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Paoli, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Thomas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C65
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: US/09/989,727
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 9; Length 229;
Best Local Similarity 99.6%; Pred. No. 4.1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYITLTK-KTEKPAIVSVGPASSFWRRYMAILLILLCYQMYVGLVALGIMSYMORN 60
DB 1 MODEGGYITLTK-KTEKPAIVSVGPASSFWRRYMAILLILLCYQMYVGLVALGIMSYMORN 60
QY 61 YQDENENRGTGLQOLAKRPGQYVVKQSEIKGFQKHGKSPCDTNRKTYGDSCTGFRRN 120
DB 61 YQDENENRGTGLQOLAKRPGQYVVKQSEIKGFQKHGKSPCDTNRKTYGDSCTGFRRN 120
QY 121 LTWESKQYCTDMNATILKIDNRNIVEYIKARTHLIRWGLSRQKSENYWKWEDGSYIS 180
DB 121 LTWESKQYCTDMNATILKIDNRNIVEYIKARTHLIRWGLSRQKSENYWKWEDGSYIS 180
QY 181 NMEFPLEDGKNNKCAFFHNGXHPFCENKHYLMCBERRAGTKVDLP 229
DB 181 NMEFPLEDGKNNKCAFFHNGXHPFCENKHYLMCBERRAGTKVDLP 229

RESULT 6
US-09-989-731.424
Sequence 424, Application US/09989731
Patent No. US20020103125A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William L.
APPLICANT: Ziang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P273091C70
CURRENT FILING DATE: US/09/989, 731
PRIOR APPLICATION NUMBER: 2001-11-20
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607

PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODBDGYITLTIKIKRKPAIVS VGVASSFWNRVALLIILICVGVVGLVALGIMSVQGRN 60
DB 1 MODBDGYITLTIKIKRKPAIVS VGVASSFWNRVALLIILICVGVVGLVALGIMSVQGRN 60

QY 61 YLQDENRRTGTLQOLKRPQGVVVKOSLKGTEKHKSPCDINWRYGDSYGFPRHN 120
DB 61 YLQDENRRTGTLQOLKRPQGVVVKOSLKGTEKHKSPCDINWRYGDSYGFPRHN 120

QY 121 LTWEESKQYCTDNATLTIKIDNENIIVBYIKARTHLIRWVGLSRQKSNEVWKMEDGSYISE 180
DB 121 LTWEESKQYCTDNATLTIKIDNENIIVBYIKARTHLIRWVGLSRQKSNEVWKMEDGSYISE 180

QY 181 NMFEFLBDGKGNMNCAYFHNKGKPEPTFGENGHYLMCEKAKNTKVDLP 229
DB 181 NMFEFLBDGKGNMNCAYFHNKGKPEPTFGENGHYLMCEKAKNTKVDLP 229

RESULT 7
US-09-989-732-424
Sequence 424, Application US/09989732
Patent No. US20020123463A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Ford, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gottard, Audrey J.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C57
CURRENT APPLICATION NUMBER: US/09/989,732
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28

PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
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PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-05
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/039653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/039801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
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PRIOR FILING DATE: 1998-06-22
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PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02

PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MOEDGYITNITRRPALVSVPASSPMWRVALLITLCYAMVGLVALGTSWQRN 60
Db 1 MOEDGYITNITRRPALVSVPASSPMWRVALLITLCYAMVGLVALGTSWQRN 60

Qy 61 YLDENENRTGTIQLAKRCQYVVKQSELKGTFFKHKCSPODTNRRYVDSGYPFRN 120
Db 61 YLDENENRTGTIQLAKRCQYVVKQSELKGTFFKHKCSPODTNRRYVDSGYPFRN 120

Qy 121 LTMESKQYCTDNATLKTIDNNTVEYIKARHLIRWGLSRQKSNEVWKEDGSYIS 180
Db 121 LTMESKQYCTDNATLKTIDNNTVEYIKARHLIRWGLSRQKSNEVWKEDGSYIS 180

Qy 181 NMPEFLDGGKNNCAVFNHGKMEPTFCENKHYLMGRKAGMTKVDLP 229
Db 181 NMPEFLDGGKNNCAVFNHGKMEPTFCENKHYLMGRKAGMTKVDLP 229

RESULT 8
US-09-991-073-424
Sequence 424, Application US/09991073
Patent No. US20020127576A1

GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gunney, Austin J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tamas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin

TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C15
CURRENT APPLICATION NUMBER: US/09/991,073
PRIOR FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYITLNKIKTKRPAIVSVGPASSFPMWRMALLILLCYGMVVGVALGIMVMOGN 60
DB 1 MODEGGYITLNKIKTKRPAIVSVGPASSFPMWRMALLILLCYGMVVGVALGIMVMOGN 60
QY 61 YLQDENNRRTGLQOLARPCQYVVKQSELEKTEFGHKOSPCDTNWRYYGDSCTGFFPHN 120
DB 61 YLQDENNRRTGLQOLARPCQYVVKQSELEKTEFGHKOSPCDTNWRYYGDSCTGFFPHN 120
QY 121 LTWESKQYCTDMNATILKIDNRNIVETIKARTHLIRWVGSLSPKSNVWVKWEDGSVISE 180
DB 121 LTWESKQYCTDMNATILKIDNRNIVETIKARTHLIRWVGSLSPKSNVWVKWEDGSVISE 180
QY 181 NMFEFLDQKGNMNCAYFPNGMPTFCENKHYLMCERKAGMCTKVDP 229
DB 181 NMFEFLDQKGNMNCAYFPNGMPTFCENKHYLMCERKAGMCTKVDP 229

RESULT 9

US-09-990-442-424
Sequence 424, Application US/09990442
Patient No. US20020132252A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bernstein, David
APPLICANT: Besnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2/3021C8
CURRENT APPLICATION NUMBER: US/09/990,442
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
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3	PRIOR FILING DATE: 1998-06-17	
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7	PRIOR APPLICATION NUMBER: 60/0905398	
8	PRIOR FILING DATE: 1998-06-17	
9	PRIOR APPLICATION NUMBER: 60/0905359	
10	PRIOR FILING DATE: 1998-06-17	
11	PRIOR APPLICATION NUMBER: 60/0905600	
12	PRIOR FILING DATE: 1998-06-17	
13	PRIOR APPLICATION NUMBER: 60/0905633	
14	PRIOR FILING DATE: 1998-06-17	
15	PRIOR APPLICATION NUMBER: 60/0905801	
16	PRIOR FILING DATE: 1998-06-18	
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25	PRIOR APPLICATION NUMBER: 60/089952	
26	PRIOR FILING DATE: 1998-06-19	
27	PRIOR APPLICATION NUMBER: 60/090246	
28	PRIOR FILING DATE: 1998-06-22	
29	PRIOR APPLICATION NUMBER: 60/090252	
30	PRIOR FILING DATE: 1998-06-22	
31	PRIOR APPLICATION NUMBER: 60/090254	
32	PRIOR FILING DATE: 1998-06-22	
33	PRIOR APPLICATION NUMBER: 60/090349	
34	PRIOR FILING DATE: 1998-06-23	
35	PRIOR APPLICATION NUMBER: 60/090355	
36	PRIOR FILING DATE: 1998-06-23	
37	PRIOR APPLICATION NUMBER: 60/090429	
38	PRIOR FILING DATE: 1998-06-24	
39	PRIOR APPLICATION NUMBER: 60/090431	
40	PRIOR FILING DATE: 1998-06-24	
41	PRIOR APPLICATION NUMBER: 60/090435	
42	PRIOR FILING DATE: 1998-06-24	
43	PRIOR APPLICATION NUMBER: 60/090444	
44	PRIOR FILING DATE: 1998-06-24	
45	PRIOR APPLICATION NUMBER: 60/090445	
46	PRIOR FILING DATE: 1998-06-24	
47	PRIOR APPLICATION NUMBER: 60/090472	
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49	PRIOR APPLICATION NUMBER: 60/090535	
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55	PRIOR APPLICATION NUMBER: 60/090557	
56	PRIOR FILING DATE: 1998-06-24	
57	PRIOR APPLICATION NUMBER: 60/090676	
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61	PRIOR APPLICATION NUMBER: 60/090690	
62	PRIOR FILING DATE: 1998-06-25	
63	PRIOR APPLICATION NUMBER: 60/090694	
64	PRIOR FILING DATE: 1998-06-25	
65	PRIOR APPLICATION NUMBER: 60/090655	
66	PRIOR FILING DATE: 1998-06-25	
67	PRIOR APPLICATION NUMBER: 60/090656	
68	PRIOR FILING DATE: 1998-06-25	
69	PRIOR APPLICATION NUMBER: 60/090862	
70	PRIOR FILING DATE: 1998-06-26	
71	PRIOR APPLICATION NUMBER: 60/090863	
72	PRIOR FILING DATE: 1998-06-26	
73	PRIOR APPLICATION NUMBER: 60/091360	
74	PRIOR FILING DATE: 1998-07-01	

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? PRIOR APPLICATION NUMBER: 60/091478
? PRIOR FILING DATE: 1998-07-02
? PRIOR APPLICATION NUMBER: 60/091544
? PRIOR FILING DATE: 1998-07-01
? PRIOR APPLICATION NUMBER: 60/091519
? PRIOR FILING DATE: 1998-07-02
? PRIOR APPLICATION NUMBER: 60/091626
? PRIOR FILING DATE: 1998-07-02
? PRIOR APPLICATION NUMBER: 60/091633
? PRIOR FILING DATE: 1998-07-02
? PRIOR APPLICATION NUMBER: 60/091978
? PRIOR FILING DATE: 1998-07-07
? PRIOR APPLICATION NUMBER: 60/091982
? PRIOR FILING DATE: 1998-07-07
? PRIOR APPLICATION NUMBER: 60/092182
? PRIOR FILING DATE: 1998-07-09
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Query Match          99.4%;   Score 1253; DB 10; Length 225;
Best Local Similarity 99.6%;   Pred. No. 4,1e-119;
Matches 225; Conservative 0; Mismatches 1;   Indels 0; Gaps 0.

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Qy	YLQDENENRGTGLQQLAKRPPCYVVKQSEILKTFGFKHKSJEDDTMRYYGDSCTGFFRHN	12
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Qy	LYTWEESEGYQTTDMAALLIKLIDNRNIVEYIKARTHLIRWGLSRKSNSEVKKMDEGSVISE	18
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Qy	LYTWEESEGYQTTDMAALLIKLIDNRNIVEYIKARTHLIRWGLSRKSNSEVKKMDEGSVISE	18
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Qy	NMFEEPLFEDGKGNANCAVFNHGKMHFPFCCEKATYLMCEKSAKGTKYDOLP	229
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RESULT 10
US-09-991-163-424
Sequence 424, Application US/09991163
Patent No. US20020132253A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavzin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secured and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P27301C17
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787

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PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 1 MODDDYITLTIKTKRKALVSVGSSFWRVMLILLICVGVVGLVGLVMSVQRN 60
QY 61 YLQENENRTGTLQOLAKRFQYVVKQSEKGTGKHKSPCDINMEVYGDSCYGFRRN 120
DB 61 YLQENENRTGTLQOLAKRFQYVVKQSEKGTGKHKSCDINMEVYGDSCYGFRRN 120
QY 121 LTWEESKQYCTDMNATLTIKIDNENIYEXIKARTHLIRWGLSRKSNEMWMEDEGVISE 180
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QY 181 NMESEFLDGGKNNKCAVHNGKMPPTPCENKGYLMCEKAKMTYVDLP 229
DB 181 NMESEFLDGGKNNKCAVHNGKMPPTPCENKGYLMCEKAKMTYVDLP 229

RESULT 11

US-09-993-604-424

Sequence 424; Application US/09993604

Patent No. US20020137075A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnovers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerdner, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey J.

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kjaavin, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC25
CURRENT APPLICATION NUMBER: US/09/993,604
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
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PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
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PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861

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1	99.6%	1253	APPLICANT: Baker, Kevin P.	60	0	1	0	0
1	99.6%	1253	APPLICANT: Betstein, David	60	0	1	0	0
1	99.6%	1253	APPLICANT: Destrogers, Luc	60	0	1	0	0
1	99.6%	1253	APPLICANT: Eaton, Dan L.	60	0	1	0	0
1	99.6%	1253	APPLICANT: Ferrari, Napoleone	60	0	1	0	0
1	99.6%	1253	APPLICANT: Gerber, Harshper	60	0	1	0	0
1	99.6%	1253	APPLICANT: Gerilsen, Mary E.	60	0	1	0	0
1	99.6%	1253	APPLICANT: Goddard, Audrey J.	60	0	1	0	0
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1	99.6%	1253	APPLICANT: Tumas, Daniel	60	0	1	0	0

APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC2
CURRENT APPLICATION NUMBER: US/09/990,456
PRIOR FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR APPLICATION NUMBER: 60/065186
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 225;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 1 MODEDGYTLNITKTRKPAIVSVGPASSFWKRWMLILILVGVWVGLVAGIWSWQMN 60
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DB 61 YLQDENENRTGTLQOLANRFGQYVVKQSELKGTFFGKHKSPCDTNWRYYSQCYFFERN 120
QY 121 LTWSSKQCYCTDMATLTKINDENIVETIKARTHLIRVWGSFKQSNVWKMEDGSVISE 180
DB 121 LTWSSKQCYCTDMATLTKINDENIVETIKARTHLIRVWGSFKQSNVWKMEDGSVISE 180
QY 181 NMFELEDGKNNMCAYPHNGRMEPTFCENKHYLMCEKAKGATKVDLP 229
DB 181 NMFELEDGKNNMCAYPHNGRMEPTFCENKHYLMCEKAKGATKVDLP 229

RESULT 13
US-09-989-721-424
Sequence 424: Application US/09989721
Patent No. US20020142961A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Borstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Ford, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.

APPLICANT: Pan, James
APPLICANT: Peoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Matanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC55
CURRENT APPLICATION NUMBER: US/09/989,721
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
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 PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1233; DB 10; Length 229;
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 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYITLNKIKRKPAIVSGPSSFWKRVNALLILCVGNVVALGIVSWQMN 60
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 DB 61 YLQDENNRRTGTLQOLAKRFQYVVKOSLKGTFKHKSPCLTNMYEYDSCIGFRRN 120
 QY 121 LTWEESKOYCTDMNATLLKTDNRIVYIKARTHLISWGLSRQKSNBWMZMEDGSYISE 180
 DB 121 LTWEESKOYCTDMNATLLKTDNRIVYIKARTHLISWGLSRQKSNBWMZMEDGSYISE 180
 QY 181 NMFEFLDGGKNNMCAYFHNKGMPTFCENKGYLMCEKAKGTVDDLP 229
 DB 181 NMFEFLDGGKNNMCAYFHNKGMPTFCENKGYLMCEKAKGTVDDLP 229

RESULT 14
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 Patent No. US20020160384A1
 GENERAL INFORMATION:
 APPLICANT: Ashkenazi, Avi J.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desrochers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gettel, Hanspeter
 APPLICANT: Gerlitz, Mary E.
 APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul U.
APPLICANT: Grimaldi, J. Christopher
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APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
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APPLICANT: Matanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC20
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PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match          99.4%; Score 1253; DB 10; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 61 YIQDENERTGTLOOLAKRFCCYVVKOSBLKGTFGHKSPDPTWRYGDSCTGFEFFAN 120
QY 121 LTWESKOYCTDMNATLTKIDNNTVEYIKARTHLIRWGLSRQSNVEWKEDESVISE 180
DB 121 LTWESKOYCTDMNATLTKIDNNTVEYIKARTHLIRWGLSRQSNVEWKEDESVISE 180
QY 121 LTWESKOYCTDMNATLTKIDNNTVEYIKARTHLIRWGLSRQSNVEWKEDESVISE 180
DB 121 LTWESKOYCTDMNATLTKIDNNTVEYIKARTHLIRWGLSRQSNVEWKEDESVISE 180
QY 181 NMFPELEDDKGNMNCAYFHNGKMHPTFCNKKEYLMCERKAGMTKXDQLP 229
DB 181 NMFPELEDDKGNMNCAYFHNGKMHPTFCNKKEYLMCERKAGMTKXDQLP 229

RESULT 15
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Sequence 424, Application US/09989293A
Patent No. US20020177164A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Wally E.
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APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C6
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;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODDEGYITLNIKIRKPLVSVGPASSFWRVMAILLILCVGKVVGLVALGIMSVQGN 60
DB 1 MODDEGYITLNIKIRKPLVSVGPASSFWRVMAILLILCVGKVVGLVALGIMSVQGN 60
QY YLQDENENRGTGLQOLKXRFQYVVKOSELTGFRKHGKCSPPDNMRYYGDSYGFEEFN 120
DB YLQDENENRGTGLQOLKXRFQYVVKOSELTGFRKHGKCSPPDNMRYYGDSYGFEEFN 120
QY 12 LTMWEEKQYCTDNNAATLILKIDNRNIVEYIKARTHLIRWVGLSRQKSNVWWMEDGSVISE 180
DB 12 LTMWEEKQYCTDNNAATLILKIDNRNIVEYIKARTHLIRWVGLSRQKSNVWWMEDGSVISE 180
QY 181 NMEFFLEDEKGNMNCAYFHNKGMPTFCENKHVILMCEKXAGMTYVDOLP 229
DB 181 NMEFFLEDEKGNMNCAYFHNKGMPTFCENKHVILMCEKXAGMTYVDOLP 229

RESULT 16
US-09-989-735-424
; Sequence 424, Application US/09989735
; Publication No. US200201932999A1
; GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Geider, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gunney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P27301C61
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
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PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075345
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PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04

PRIOR APPLICATION NUMBER: 60/088167
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PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
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/ PRIOR FILING DATE: 1998-06-24
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/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090444
/ PRIOR FILING DATE: 1998-06-24
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/ PRIOR FILING DATE: 1998-06-24
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/ PRIOR APPLICATION NUMBER: 60/091633
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091978
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/091982
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/092182
/ PRIOR FILING DATE: 1998-07-09
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Query Match 99.4%; Score 1253; DB 10; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 1 MODEGGYITLNIKTKKPLATVSGPASPFWRMALILILICGVAVGVALGIVSMORN 60
DB 1 MODEGGYITLNIKTKKPLATVSGPASPFWRMALILILICGVAVGVALGIVSMORN 60
QY 61 YLDENENRGTGLQGLARFCQYVVKQSELKGTENGAKSPCDINWRYGDSGYFFPHN 120
DB 61 YLDENENRGTGLQGLARFCQYVVKQSELKGTENGAKSPCDINWRYGDSGYFFPHN 120
QY 121 LTWESSKQYCTDMATLTKIDNRNIVEYTKATHLIRWVGLSFRQSNBWKWEDGSVISE 180
DB 121 LTWESSKQYCTDMATLTKIDNRNIVEYTKATHLIRWVGLSFRQSNBWKWEDGSVISE 180
QY 181 NMFELIDGKGNMCAVFNHNGMHPPTPCENKXYLMCEKXAGWTYDOLP 229
DB 181 NMFELIDGKGNMCAVFNHNGMHPPTPCENKXYLMCEKXAGWTYDOLP 229
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RESULT 17
US-09-930-444-424
/ Sequence 424, Application US/09990444
/ Publication No. US20020193300A1
/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi J.
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Gerritsen, Mary B.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, J. Christopher
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Kljavin, Ivar J.
/ APPLICANT: Napier, Mary A.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Watanabe, Colin K.
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2730P1C19
/ CURRENT APPLICATION NUMBER: US/39/990.444
/ PRIOR FILING DATE: 2001-11-14
/ PRIOR APPLICATION NUMBER: 60/045787
/ PRIOR FILING DATE: 1997-06-16
/ PRIOR APPLICATION NUMBER: 60/062250
/ PRIOR FILING DATE: 1997-10-17
/ PRIOR APPLICATION NUMBER: 60/065186
/ PRIOR FILING DATE: 1997-11-12
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PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04
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PRIOR APPLICATION NUMBER: 60/090252
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PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
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PRIOR FILING DATE: 1998-06-23

PRIOR APPLICATION NUMBER: 60/090355
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PRIOR FILING DATE: 1998-06-24
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PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119; Indels 0; Gaps 0;
Matches 228; Conservative 0; Mismatches 1;

QY 1 MODDEGYITLNTKTRPPLAVSVGPASSFWWRVMAILLILCVGMVGVGVALGIMVMOGRN 60
DB 1 XODDEGYITLNTKTRKPLAVSVGPASSFWWRVMAILLILCVGMVGVGVALGIMVMOGRN 60
QY 61 YQDINENRPTGTLQOLAKRPGCOYVVKOSFELKOTEPFGHKCSPDDTWKRYYGDSCTYGFRRN 120
DB 61 YQDINENRPTGTLQOLAKRPGCOYVVKOSFELKOTEPFGHKCSPDDTWKRYYGDSCTYGFRRN 120
QY 121 LFWESKOYCTDMNATLTKIDNRNTVEYTKATPILRMVGLSRQKSNEVWKMGEDGVISA 180
DB 121 LFWESKOYCTDMNATLTKIDNRNTVEYTKATPILRMVGLSRQKSNEVWKMGEDGVISA 180

QY 181 NMFELEBEGKNNMCAVFNHNGMHPFCENKHYLMCERRAGKTKVDLP 229
DB 181 NMFELEBEGKNNMCAVFNHNGMHPFCENKHYLMCERRAGKTKVDLP 229
RESULT 18
US-09-991-181-424
/ Sequence 424, Application US/09591181
/ Publication No. US20020197615A1
/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi U.
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gerder, Hanspeter
/ APPLICANT: Gerlitsen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Grimaldi, J. Christopher
/ APPLICANT: Guiney, Austin L.
/ APPLICANT: Kijavitt, Ivar U.
/ APPLICANT: Napier, Mary A.
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/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Watanabe, Colin K.
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2730PIC53
/ CURRENT APPLICATION NUMBER: US/09/991,181
/ PRIOR FILING DATE: 2001-11-16
/ PRIOR APPLICATION NUMBER: 60/049787
/ PRIOR FILING DATE: 1997-06-16
/ PRIOR APPLICATION NUMBER: 60/062250
/ PRIOR FILING DATE: 1997-10-17
/ PRIOR APPLICATION NUMBER: 60/065186
/ PRIOR FILING DATE: 1997-11-12
/ PRIOR APPLICATION NUMBER: 60/065311
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/ PRIOR APPLICATION NUMBER: 60/091626
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/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091978
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/091982
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/092182
/ PRIOR FILING DATE: 1998-07-09
/
Query Match      99.4%;   Score 1253;   DB 10;   Length 229;
Best Local Similarity 99.6%;   Pred. No. 4,1e-119;
Matches 228;   Conservative 0;   Mismatches 1;   Indels 0;   Gaps 0;

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QY 1 MODEDEYITLNTKTRKPAALVSVGPASSFWRRVVALITLLICVGVVGLVALGIWSVMQEN 60
DB 1 MODEDEYITLNTKTRKPAALVSVGPASSFWRRVVALITLLICVGVVGLVALGIWSVMQEN 60
QY 61 YLODENENRTGTLQOLAKRFQCYVVKQSELKGTFFKHKSPCDTMRYYGDSQYGFRRN 120
DB 61 YLODENENRTGTLQOLAKRFQCYVVKQSELKGTFFKHKSPCDTMRYYGDSQYGFRRN 120

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QY 121 LTWESKQCYCTDMATLTKIDNINIVYIKARTHLIRWGLSRKSNKWKEDGSYISE 180
DB 121 LTWESKQCYCTDMATLTKIDNINIVYIKARTHLIRWGLSRKSNKWKEDGSYISE 180
QY 181 NMEFFLEDGKKNKCAFEHNGKKEPTECENKHYLMCEKRGKGMTEVDLP 229
DB 181 NMEFFLEDGKKNKCAFEHNGKKEPTECENKHYLMCEKRGKGMTEVDLP 229

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RESULT 19

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US-09-989-730-424
/ Sequence 424, Application US/09989730
/ Publication No. US20020197674A1
/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi J.
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Borstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Gertlser, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, J. Christopher
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Kijavich, Ivar J.
/ APPLICANT: Napier, Mary A.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas P.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Watanabe, Colin K.
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE OF INVENTION: Acids Encoding the Same
/ FILE REFERENCE: P2730P1C69
/ CURRENT APPLICATION NUMBER: US/09/989,730
/ PRIOR FILING DATE: 2001-11-20
/ PRIOR APPLICATION NUMBER: 60/049787
/ PRIOR FILING DATE: 1997-06-16
/ PRIOR APPLICATION NUMBER: 60/062250
/ PRIOR FILING DATE: 1997-10-17
/ PRIOR APPLICATION NUMBER: 60/065186
/ PRIOR FILING DATE: 1997-11-12
/ PRIOR APPLICATION NUMBER: 60/065311
/ PRIOR FILING DATE: 1997-11-13
/ PRIOR APPLICATION NUMBER: 60/066770
/ PRIOR FILING DATE: 1997-11-24
/ PRIOR APPLICATION NUMBER: 60/075945
/ PRIOR FILING DATE: 1998-02-25
/ PRIOR APPLICATION NUMBER: 60/078910
/ PRIOR FILING DATE: 1998-03-20
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/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/087106
/ PRIOR FILING DATE: 1998-05-28
/ PRIOR APPLICATION NUMBER: 60/087607
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/ PRIOR FILING DATE: 1998-06-03
/ PRIOR APPLICATION NUMBER: 60/088021

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4	PRIOR FILING DATE: 1998-06-04	
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17	PRIOR APPLICATION NUMBER: 60/088217	
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19	PRIOR APPLICATION NUMBER: 60/088655	
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PRIOR APPLICATION NUMBER:	60/091982
PRIOR FILING DATE:	1998-07-07
PRIOR APPLICATION NUMBER:	60/092182
PRIOR FILING DATE:	1998-07-09

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Query Match      99.4%  Score 1253;  DB 10;  Length 229;
Best Local Similarity 99.6%  Pred. No. 4,1e+19;
Matches 228;  Conservative 0;  Mismatches 1;  Indels 0;  Gaps 0.

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Qy 121 LTWESKQYCTDMATLTKIDNRNIYVYIKARTHLIRWGLSRQKSNEWKWEDGSVISE 180
Db 121 LTWESKQYCTDMATLTKIDNRNIYVYIKARTHLIRWGLSRQKSNEWKWEDGSVISE 180
Qy 181 NMPEPLDQGNMNCAYFHNGKHHPPTGCKHKLMOCKRKGMTNVOQLP 229
Db 181 NMPEPLDQGNMNCAYFHNGKHHPPTGCKHKLMOCKRKGMTNVOQLP 229

RESULT 20
US-09-900-436-424
Sequence 424, Application US/09990436
Publication No. US20020198148A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
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APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C14
CURRENT APPLICATION NUMBER: US/09/990,436
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;

Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MOEDGGYITNTIKTRKPAIVSGPSSFWRVALLILICVGMVGLVALGITSWQRN 60
Db 1 MOEDGGYITNTIKTRKPAIVSGPSSFWRVALLILICVGMVGLVALGITSWQRN 60
QY 61 YLQDENENRTGTLQOLAKRFQYVVKQSEIKGTFKHKSPDNTWRYGDSYGFRRN 120
Db 61 YLQDENENRTGTLQOLAKRFQYVVKQSEIKGTFKHKSPDNTWRYGDSYGFRRN 120
QY 121 LTWEESKQYCDNMATLTKIDNNRYEYIKARFTLITWGLSRQSNWWMZEDGSYSE 180
Db 121 LTWEESKQYCDNMATLTKIDNNRYEYIKARFTLITWGLSRQSNWWMZEDGSYSE 180
QY 181 NMFEFLDGGKNNCAFYHNGKMHFTFCENXHYLMCRKAGMTYVDLP 229
Db 181 NMFEFLDGGKNNCAFYHNGKMHFTFCENXHYLMCRKAGMTYVDLP 229
RESULT 21
US-09-993-687-424
Sequence 424; Application US/09993687
Publication No. US20020198149A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerder, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, Paul J.
APPLICANT: Gunney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumasi, Daniel
APPLICANT: Williams, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C11
CURRENT APPLICATION NUMBER: US/09/993,687
CURRENT FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106

[illegible]

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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09
Query Match          99.4%; Score 1253; DB 10; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MODEGTYITLNKTKRPAIVSYGPPASSFWRMVAILILLCVMTVGLVAGISVQGN 60
DB 1 MODEGTYITLNKTKRPAIVSYGPPASSFWRMVAILILLCVMTVGLVAGISVQGN 60
QY 61 YLQDENERTGTLQOLARFCQYVVKOSLKGTEFGHCSPPDTNWRYYGSCYGFRRN 120
DB 61 YLQDENERTGTLQOLARFCQYVVKOSLKGTEFGHCSPPDTNWRYYGSCYGFRRN 120
QY 121 LTWESKQYCTDMNATLKKIDRNIVEYIKATHTLIRWVGLSPQKSNVWKMEDDSVISE 180
DB 121 LTWESKQYCTDMNATLKKIDRNIVEYIKATHTLIRWVGLSPQKSNVWKMEDDSVISE 180
QY 181 NMFELELDGKGMNCAVFNHNGMHTPCENKGYLMCERKAGTKVDLP 229
DB 181 NMFELELDGKGMNCAVFNHNGMHTPCENKGYLMCERKAGTKVDLP 229

RESULT 22
US-09-989-734-424
; Sequence 424, Application US/09989734
; Publication No. US2003003531A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desmoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fond, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Guiney, Austin J.
; APPLICANT: Kijavich, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FIB REFERENCE: P2730P1C64
; CURRENT APPLICATION NUMBER: US/09/989,734
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
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; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
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; PRIOR APPLICATION NUMBER: 60/088025
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; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
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; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
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; PRIOR FILING DATE: 1998-06-09
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; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
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; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
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PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/085600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
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PRIOR APPLICATION NUMBER: 60/089948
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PRIOR APPLICATION NUMBER: 60/089952
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PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
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PRIOR FILING DATE: 1998-06-24
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PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
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PRIOR APPLICATION NUMBER: 60/090862
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PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02

PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091992
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match          99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MCEDEGTTTNTIKRKALVSGPAGSFFWRRVALLILLICVGVVGLVALGWSWQRN 60
DB 1 MCEDEGTTTNTIKRKALVSGPAGSFFWRRVALLILLICVGVVGLVALGWSWQRN 60
QY 61 YLQDENENRGTLOQLAKRCQYVVKQSEELKGTPEKHKCSPCDTNWEYYGDSYGFPRN 120
DB 61 YLQDENENRGTLOQLAKRCQYVVKQSEELKGTPEKHKCSPCDTNWEYYGDSYGFPRN 120
QY 121 LTWEESKQYCTDMNATLTKTDNNTVYIYIARTLILRWGLSRQKSNWKMEDGSYISE 180
DB 121 LTWEESKQYCTDMNATLTKTDNNTVYIYIARTLILRWGLSRQKSNWKMEDGSYISE 180
QY 181 NMFEPLDGGKNNMCAYFENGKRMPTFCENKGYIMCERKAGMTVDQLP 229
DB 181 NMFEPLDGGKNNMCAYFENGKRMPTFCENKGYIMCERKAGMTVDQLP 229

RESULT 23
US-09-997-653-424
Sequence 424, Application US/09997653
Publication No. US2003008297A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Borstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Ealon, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, U. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin X.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P273021C38
CURRENT APPLICATION NUMBER: US/09/997,653
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
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[illegible]

;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/051519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/051978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09
Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MODEGYITTNIKTRKPAVSVGPASSFWRMALILILCVGWVGLVALGIWVQRN 60
Db 1 MODEGYITTNIKTRKPAVSVGPASSFWRMALILILCVGWVGLVALGIWVQRN 60
QY 61 YLQENENRGTLOQLAKRFQYVVKSELKGTFRKHKSCPTNMYRYGDSYGFRRN 120
Db 61 YLQENENRGTLOQLAKRFQYVVKSELKGTFRKHKSCPTNMYRYGDSYGFRRN 120
QY 121 LTWESQYCTDMNATILIKIDNRNIVEYIKARTHLIRWGLSRQKSNVWKMEDGYISE 180
Db 121 LTWESQYCTDMNATILIKIDNRNIVEYIKARTHLIRWGLSRQKSNVWKMEDGYISE 180
QY 181 NMEFLDGGKNNCAVFNHNGKAPTCENKHYIMCERKAGMTKYDOLP 229
Db 181 NMEFLDGGKNNCAVFNHNGKAPTCENKHYIMCERKAGMTKYDOLP 229
RESULT 24
US-09-993-667-424
; Sequence 424, Application US/09993667
; Publication No. US20030022187A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bocstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Guiney, Austin L.
; APPLICANT: Kijavir, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C4
; CURRENT FILING DATE: US/09/993,667
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17

;; PRIOR APPLICATION NUMBER: 60/065186
;; PRIOR FILING DATE: 1997-11-12
;; PRIOR APPLICATION NUMBER: 60/065311
;; PRIOR FILING DATE: 1997-11-13
;; PRIOR APPLICATION NUMBER: 60/066770
;; PRIOR FILING DATE: 1997-11-24
;; PRIOR APPLICATION NUMBER: 60/075945
;; PRIOR FILING DATE: 1998-02-25
;; PRIOR APPLICATION NUMBER: 60/078910
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;; PRIOR APPLICATION NUMBER: 60/089105
;; PRIOR FILING DATE: 1998-06-12
;; PRIOR APPLICATION NUMBER: 60/089440
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089512

PRIOR FILING DATE: 1998-06-16
 PRIOR APPLICATION NUMBER: 60/089514
 PRIOR FILING DATE: 1998-06-16
 PRIOR APPLICATION NUMBER: 60/089532
 PRIOR FILING DATE: 1998-06-17
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 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090862
 PRIOR FILING DATE: 1998-06-26
 PRIOR APPLICATION NUMBER: 60/090863
 PRIOR FILING DATE: 1998-06-26

PRIOR APPLICATION NUMBER: 60/091360
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091478
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091544
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091519
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091626
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091633
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091978
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
 Best Local Similarity 99.6%; Pred. No. 4, 10-119;
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGYITLNIKTRKPLVSVGPASSFWKRWMLITLILCVGWVGVVALGIMVWQPN 60
 DB 1 MODEGYITLNIKTRKPLVSVGPASSFWKRWMLITLILCVGWVGVVALGIMVWQPN 60
 QY 61 YLQDENENRTGLQCLAKRFQYVVKQSELKGFEXHNCSPDNTWRYGDSYGFPRHN 120
 DB 61 YLQDENENRTGLQCLAKRFQYVVKQSELKGFEXHNCSPDNTWRYGDSYGFPRHN 120
 QY 121 LTWESKQYCTDMNATLTKINRNIVEYIKARTHLIRWGLSRQKSNHWKEDSGVISE 180
 DB 121 LTWESKQYCTDMNATLTKINRNIVEYIKARTHLIRWGLSRQKSNHWKEDSGVISE 180
 QY 181 NMFEFLDGKNNMCAYFHNKMHPTPCENKGYLMCEKAKMTKYDOLP 229
 DB 181 NMFEFLDGKNNMCAYFHNKMHPTPCENKGYLMCEKAKMTKYDOLP 229

RESULT 25
 US-09-997-428-424
 Sequence 424, Application US/09997428
 Publication No. US20030027162A1
 GENERAL INFORMATION:
 APPLICANT: Ashkenazi, Avi J.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gertelsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, U. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Kljavin, Ivar J.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: P2730P1C44
 CURRENT APPLICATION NUMBER: US/09/997,428

PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4% Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYITLNTKTRKPAVSVGPASSFWRRVAILLLTLCGVYVGVGVALGIMSVMOEN 60
DB 1 MODEGGYITLNTKTRKPAVSVGPASSFWRRVAILLLTLCGVYVGVGVALGIMSVMOEN 60
QY 61 YIQDENENRTGTLQOLAKKFCQYVVKOSLKTGTFPKHKSPDDTWREYGYDSCYGFRRN 120
DB 61 YIQDENENRTGTLQOLAKKFCQYVVKOSLKTGTFPKHKSPDDTWREYGYDSCYGFRRN 120
QY 121 LTWESSKOYCTDMNATILKIDNRNIVEYIKARTHLIRWGLSRKSNENVEKXEDSVISE 180
DB 121 LTWESSKOYCTDMNATILKIDNRNIVEYIKARTHLIRWGLSRKSNENVEKXEDSVISE 180
QY 181 NMFEFLDGGKNNMCAYFPNGKAPTCFENKXHYLMCERRKAGMTKYDOLP 229
DB 181 NMFEFLDGGKNNMCAYFPNGKAPTCFENKXHYLMCERRKAGMTKYDOLP 229

RESULT 26
US-09-97-666-424
Sequence 424, Application US/0997666
Publication No. US20030027163A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fogt, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar C.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.

APPLICANT: Zhang, Zhenli
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C42
CURRENT APPLICATION NUMBER: US/09/997,666
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
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PRIOR FILING DATE: 1997-11-13
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PRIOR FILING DATE: 1997-11-24
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PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
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PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
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PRIOR FILING DATE: 1998-06-11
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PRIOR APPLICATION NUMBER: 60/090694
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 PRIOR APPLICATION NUMBER: 60/091633
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091978
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
 Best Local Similarity 99.6%; Pred. No. 4.1e-119;
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 M0DEGYYTINIKTRKALVSVGPASSFFWMEVVALIILICVGMVGLVAGIWSVWQK 60
 DB 1 M0DEGYYTINIKTRKALVSVGPASSFFWMEVVALIILICVGMVGLVAGIWSVWQK 60
 QY 61 YL0DENENRGTLOOLKRPQYVYK0SEIKGTGKRGKSCC0NNWRYGSGCYGFFPHN 120
 DB 61 YL0DENENRGTLOOLKRPQYVYK0SEIKGTGKRGKSCC0NNWRYGSGCYGFFPHN 120
 QY 121 LTMESKQYCTDNMATLTKIDNRNIVYIKARTLIRWGLSPROKSNEMWEMEDGSVISE 180
 DB 121 LTMESKQYCTDNMATLTKIDNRNIVYIKARTLIRWGLSPROKSNEMWEMEDGSVISE 180
 QY 181 NMFFLEBDGKNMNCAYFHNGKMHPTFCENKHYLMCEKKAQMTYDQLP 229
 DB 181 NMFFLEBDGKNMNCAYFHNGKMHPTFCENKHYLMCEKKAQMTYDQLP 229

RESULT 27
 US-09-990-438-424
 ; Sequence 424, Application US/09990438
 ; Publication No. US20030027754A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi J.
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Bocstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Kijavich, Ivar J.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Par, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.
 APPLICANT: Tamas, Daniel
 APPLICANT: Watanabe, Colin K.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: P2730PIC3
 CURRENT APPLICATION NUMBER: US/09/590,438
 PRIOR FILING DATE: 2001-11-14
 PRIOR APPLICATION NUMBER: 60/049787
 PRIOR FILING DATE: 1997-06-16
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/065186
 PRIOR FILING DATE: 1997-11-12
 PRIOR APPLICATION NUMBER: 60/065311
 PRIOR FILING DATE: 1997-11-13
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 PRIOR FILING DATE: 1997-11-24
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 PRIOR FILING DATE: 1998-02-25
 PRIOR APPLICATION NUMBER: 60/078910
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 PRIOR FILING DATE: 1998-06-10
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 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090676

PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
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PRIOR APPLICATION NUMBER: 60/091360
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PRIOR APPLICATION NUMBER: 60/091478
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PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4% Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred No. 4; Le-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYITLNKIKTRKPAIVSVGPASSFWRMVALIILICVGVVGVVAGIWSVMQAN 60
DB 1 MODEGGYITLNKIKTRKPAIVSVGPASSFWRMVALIILICVGVVGVVAGIWSVMQAN 60
QY 61 YIODENENRTGTLQOLARFCQYVVKQSELTCTFKGHCSPECTIMRWRYGDSYGFPHN 120
DB 61 YIODENENRTGTLQOLARFCQYVVKQSELTCTFKGHCSPECTIMRWRYGDSYGFPHN 120
QY 121 LTWESKOYCTDMNATLIXIDNRNIVEYIKATTHIRWGLSPQKSNVEWKMEDGSYSE 180
DB 121 LTWESKOYCTDMNATLIXIDNRNIVEYIKATTHIRWGLSPQKSNVEWKMEDGSYSE 180
QY 181 NMFELLEDGKNNMCAYFPHNGCHPTFCENKTIYLMCERRAKGKTVDLP 229
DB 181 NMFELLEDGKNNMCAYFPHNGCHPTFCENKTIYLMCERRAKGKTVDLP 229

RESULT 28
US-09-990-562-424
Sequence 424, Application US/09990562
Publication No. US20030027985A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Geber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Pao, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730FIC18
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: US/09/990,562
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1998-06-12
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-18
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PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

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Query Match 99.4%; Score 1253; DB 11; Length 229;
 Best Local Similarity 99.6%; Pred. No. 4.1e-119;
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 MODEGXYTLTKIKRKPALVSVPASSFTWKRVMALILILLCYGVVGLVALGINSVMQRN 60
DB 1 MODEGXYTLTKIKRKPALVSVPASSFTWKRVMALILILLCYGVVGLVALGINSVMQRN 60
QY 61 YLQDENENRTGTLQOLARFCQYVVKQSELTGTFKHKCSPCDITWRYGDSYGFPRIN 120
DB 61 YLQDENENRTGTLQOLARFCQYVVKQSELTGTFKHKCSPCDITWRYGDSYGFPRIN 120
QY 121 LTWBSKQYCTDXNATLTKIDNENIYEXIKARTHLIRWVGLSRQSNVWKMEDGSVISE 180
DB 121 LTWBSKQYCTDXNATLTKIDNENIYEXIKARTHLIRWVGLSRQSNVWKMEDGSVISE 180
QY 181 NMFELEDEKNNMCAVFNHNGKMHPTPCENKHGILMCEKAKGTXYDLP 229
DB 181 NMFELEDEKNNMCAVFNHNGKMHPTPCENKHGILMCEKAKGTXYDLP 229

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RESULT 29
US-09-990-711-424
; Sequence 424, Application US/09950711
; Publication No. US2003032023A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter

```

APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kjaer, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P273091C2
CURRENT APPLICATION NUMBER: US/09/990,711
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
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PRIOR FILING DATE: 1997-11-24
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PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
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PRIOR APPLICATION NUMBER: 60/089217
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PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
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PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472

;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
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;; PRIOR APPLICATION NUMBER: 60/091982
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;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MOEDGHTITNITRKRAVSVGPASSFWNRVALILLICVGVVGLVAGIWSVQNR 60
DB 1 MOEDGHTITNITRKRAVSVGPASSFWNRVALILLICVGVVGLVAGIWSVQNR 60
QY 61 YLDENENRTGTLQOLAKRSCQYVVKOSHLKGFKGKSCPTTNMYGDSYGFPRRN 120
DB 61 YLDENENRTGTLQOLAKRSCQYVVKOSHLKGFKGKSCPTTNMYGDSYGFPRRN 120
QY 121 LFWESKQYCTDNATLTKIDNNIYEYIKARPHLLRWVGSRQKNEVWKMDGVSIE 180
DB 121 LFWESKQYCTDNATLTKIDNNIYEYIKARPHLLRWVGLSRQKNEVWKMDGVSIE 180
QY 181 NMEEFLDGKNNNCAYFFNGKXHPFCEKHYLMCEKRAKMTKVDLP 229
DB 181 NMEEFLDGKNNNCAYFFNGKXHPFCEKHYLMCEKRAKMTKVDLP 229

RESULT 30
US-09-989-726-424
; Sequence 424, Application US/09989726
; Publication No. US2003004073A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David

;; APPLICANT: Deenoyers, Luc
;; APPLICANT: Baton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerriksen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul U.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: 92730P1060
;; CURRENT APPLICATION NUMBER: US/09/989,726
;; PRIOR FILING DATE: 2001-11-19
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; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match          99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDEYITLNTIKTRKPAIVSYGPASSFWRVVAJILLICGMVYGVVALGIVSWMOBN 60
DB 1 MODEDEYITLNTIKTRKPAIVSYGPASSFWRVVAJILLICGMVYGVVALGIVSWMOBN 60
QY 61 YIODENENFTGLIOQJAKRFQYVYVQSELSKGFKHKKSPCDTWRRYYGDSYGFPRHN 120
DB 61 YIODENENFTGLIOQJAKRFQYVYVQSELSKGFKHKKSPCDTWRRYYGDSYGFPRHN 120
QY 121 LWBESKQYCTDMNATLLKIDNRNVEYTKATHLIRWVGLSRQKSNFVWKHEDGSLVE 180
DB 121 LWBESKQYCTDMNATLLKIDNRNVEYTKATHLIRWVGLSRQKSNFVWKHEDGSLVE 180
QY 181 NWEFPLEDGKXNNNGAYFENGKQKHPTECENKHYLMCERRAKGWTXVDLP 229
DB 181 NWEFPLEDGKXNNNGAYFENGKQKHPTECENKHYLMCERRAKGWTXVDLP 229

RESULT 31
US-09-998-156-424
; Sequence 424, Application US/0998156
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Publication No. US20030044806A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Juc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerdner, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavir, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C28
CURRENT APPLICATION NUMBER: US/09/998,156
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
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PRIOR FILING DATE: 1997-11-13
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PRIOR FILING DATE: 1997-11-24
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PRIOR FILING DATE: 1998-03-20
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;; PRIOR APPLICATION NUMBER: 60/093982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-05

Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGCTITNKKTKKPLVSVGZASSFWKRVMAIIILILCVGVVGVGLAGTSTVQGN 60
DB 1 MODSGYITLNIKKTKKPLVSVGZASSFWKRVMAIIILILCVGVVGVGLAGTSTVQGN 60
QY 61 YLQDENENRTGTLQOLARFCQYVVKQSEIKGTFFGKHCSQDENWRYSDSCYGFPRHN 120
DB 61 YLQDENENRTGTLQOLARFCQYVVKQSEIKGTFFGKHCSQDENWRYSDSCYGFPRHN 120
QY 121 LTWBSKQYCTDVAATLTKINENIIVYIKARTHILIRVWGLSRQKSNVWKMEDGSVISE 130
DB 121 LTWBSKQYCTDVAATLTKINENIIVYIKARTHILIRVWGLSRQKSNVWKMEDGSVISE 130
QY 181 NMFFLEDDGKGNMCAVFNHNGKMHPTFCENKHYLMCEKKAQMTVDOLP 229
DB 181 NMFFLEDDGKGNMCAVFNHNGKMHPTFCENKHYLMCEKKAQMTVDOLP 229

RESULT 32
US-09-990-437-424
; Sequence 424, Application US/09990437
; Publication No. US20030045463A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Forst, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Thomas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C49
; CURRENT FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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; PRIOR APPLICATION NUMBER: 60/065311
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; PRIOR FILING DATE: 1997-11-24
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PROR APPLICATION NUMBER: 60/091982
PROR FILING DATE: 1998-07-07
PROR APPLICATION NUMBER: 60/092182
PROR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.4%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

CY 1 M0DEGVTITIKTRKRPALVSVPASSFWRMALILILICVAVVGLVAGIWSVMQRN 60
DB 1 M0DEGVTITINIKTRKRPALVSVPASSFWRMALILILICVAVVGLVAGIWSVMQRN 60
CY 61 YL0DENERTGTLOOLAKRF0QYVVK0SHLKGTRKHGCSGDTNMRYYGSCYGFPRHN 120
DB 61 YL0DENERTGTLOOLAKRF0QYVVK0SEKGTGKHGCSGDTNMRYYGSCYGFPRHN 120
CY 121 LTWESKOYCTDMNATLKLIDNRNIVYIKARTHLIRWGLSRKSNVWKMEDGSYVSE 180

Db 121 LTWBSKQYCTDMNATLTKINDNRNIVEXIKARTHLJRWGJLSPQKSNWIKMDEGSYISE 180
Cy 181 NMFELEJGKGNMCAZYHNGSMHPTPCENKYYLMCEKAKGWTXVDLP 229
Db 181 NMFELEJGKGNMCAZYHNGSMHPTPCENKYYLMCEKAKGWTXVDLP 229

RESULT 33
US-09-991-157-424
Sequence 424, Application US/09991157
Publication No. US20030043638A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlisen, Mary B.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gunney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoli, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C5.
CURRENT APPLICATION NUMBER: US/09/991.157
PRIOR FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-115;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGTITNITKTRKALVSVGPASSFWWRVVALILLICVAGVGLVGLIWSVQQRN 60
DB 1 MODEDGTITNITKTRKALVSVGPASSFWWRVVALILLICVAGVGLVGLIWSVQQRN 60
QY 61 YLDENENRGTGLQQLAKRCPQYVVKQSELKGTFRKHKCSPCDTNMRKYDSDCYGFRFN 120

DB 61 YLDENENRGTGLQQLAKRCPQYVVKQSELKGTFRKHKCSPCDTNMRKYDSDCYGFRFN 120
QY 121 LTWESKQYCDMDNATLLKIDNRNIVEYIKARTHLIRWVG:SRQKSNVWKKEDGSYS 180
DB 121 LTWESKQYCDMDNATLLKIDNRNIVEYIKARTHLIRWVG:SRQKSNVWKKEDGSYS 180
QY 121 NMFEPLEBKGKNNMCAYFHNKMAPTFCENKHYLMCSRKAGWTXVDLP 229
DB 121 NMFEPLEBKGKNNMCAYFHNKMAPTFCENKHYLMCSRKAGWTXVDLP 229

RESULT 34
US-09-997-514-424
Sequence 424, Application US/09997514
Publication No. US20030049681A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bostein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan J.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1c46
CURRENT APPLICATION NUMBER: US/09/997,514
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827

PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088036
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088037
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
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PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088555
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
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PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
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PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089539
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19

PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119; Indels 0; Gaps 0;
Matches 228; Conservative 0; Mismatches 1;

QY 1 MODEGCYITLNTKTRKPAIVSVGPASSFWKRVNALLILLICVAMVGLVALGIWSVQPN 60
DB 1 MODEGCYITLNTKTRKPAIVSVGPASSFWKRVNALLILLICVAMVGLVALGIWSVQPN 60
QY 61 YIODENENRTGT:QOLAKRFGQYVWQSLKGFKFKHKSPPCJTNWRYGDSGCGFFRN 120
DB 61 YIODENENRTGT:QOLAKRFGQYVWQSLKGFKFKHKSPPCJTNWRYGDSGCGFFRN 120
QY 121 LFWESKQYCTDMNATLLKIDNRNIVETIKARTHLIRWTGLS3OKSNEYMKWEDGSVSE 180
DB 121 LFWESKQYCTDMNATLLKIDNRNIVETIKARTHLIRWTGLS3OKSNEYMKWEDGSVSE 180
QY 181 NMFEPLEDEKGNMNCYFFHNGKXHPTECENKHYLMCERKAGMTKYDLP 229
DB 181 NMFEPLEDEKGNMNCYFFHNGKXHPTECENKHYLMCERKAGMTKYDLP 229

RESULT 35
US-09-97-573-424
Sequence 424, Application US/0997573
General Information:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bostein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, V. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P27301C45
CURRENT APPLICATION NUMBER: US/09/997, 573
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02

PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
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PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
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PRIOR APPLICATION NUMBER: 60/088655
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PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
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PRIOR APPLICATION NUMBER: 60/088742
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PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089558
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089559
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907

PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 223;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MODEGYTTLNKTKRKPAVSVGPASSFWWVMTLLITLCVWVVGVAIGTSMVRN 60
Db 1 MODEGYTTLNKTKRKPAVSVGPASSFWWVMTLLITLCVWVVGVAIGTSMVRN 60
Qy 61 YLQDENENRTGTLOAKRFQYVYKQSEIKGTGKHSQCDTNWRYYGSCYGFERRN 120
Db 61 YLQDENENRTGTLOAKRFQYVYKQSEIKGTGKHSQCDTNWRYYGSCYGFERRN 120
Qy 121 LTMERSKQYCTDMNATLTIKNRNIVETIKRPTHIRWVGLSRQSNEMVRKEDGSVISE 180
Db 121 LTMERSKQYCTDMNATLTIKNRNIVETIKRPTHIRWVGLSRQSNEMVRKEDGSVISE 180
Qy 181 NMFEFLBDGKGNMCAVPHNGKMEPTPCENHGYMCEKXAGVTVDDUP 229
Db 181 NMFEFLBDGKGNMCAVPHNGKMEPTPCENHGYMCEKXAGVTVDDUP 229

RESULT 36
US-09-991-172-424
Sequence 424, Application US/09991172
Publication No. US2003050457A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gunney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zhen
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OR INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C50
CURRENT APPLICATION NUMBER: US/09/991,172
PRIOR FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600

1	PRIOR FILING DATE: 1998-05-07
2	PRIOR APPLICATION NUMBER: 60/0871106
3	PRIOR FILING DATE: 1998-05-28
4	PRIOR APPLICATION NUMBER: 60/0876077
5	PRIOR FILING DATE: 1998-06-02
6	PRIOR APPLICATION NUMBER: 60/0876099
7	PRIOR FILING DATE: 1998-06-02
8	PRIOR APPLICATION NUMBER: 60/087759
9	PRIOR FILING DATE: 1998-06-02
10	PRIOR APPLICATION NUMBER: 60/087759
11	PRIOR FILING DATE: 1998-06-02
12	PRIOR APPLICATION NUMBER: 60/0879257
13	PRIOR FILING DATE: 1998-06-03
14	PRIOR APPLICATION NUMBER: 60/0880211
15	PRIOR FILING DATE: 1998-06-04
16	PRIOR APPLICATION NUMBER: 60/088025
17	PRIOR FILING DATE: 1998-06-04
18	PRIOR APPLICATION NUMBER: 60/088026
19	PRIOR FILING DATE: 1998-06-04
20	PRIOR APPLICATION NUMBER: 60/088028
21	PRIOR FILING DATE: 1998-06-04
22	PRIOR APPLICATION NUMBER: 60/088029
23	PRIOR FILING DATE: 1998-06-04
24	PRIOR APPLICATION NUMBER: 60/088030
25	PRIOR FILING DATE: 1998-06-05
26	PRIOR APPLICATION NUMBER: 60/088033
27	PRIOR FILING DATE: 1998-06-05
28	PRIOR APPLICATION NUMBER: 60/088212
29	PRIOR FILING DATE: 1998-06-05
30	PRIOR APPLICATION NUMBER: 60/088217
31	PRIOR FILING DATE: 1998-06-05
32	PRIOR APPLICATION NUMBER: 60/088655
33	PRIOR FILING DATE: 1998-06-09
34	PRIOR APPLICATION NUMBER: 60/088734
35	PRIOR FILING DATE: 1998-06-10
36	PRIOR APPLICATION NUMBER: 60/088738
37	PRIOR FILING DATE: 1998-06-10
38	PRIOR APPLICATION NUMBER: 60/088742
39	PRIOR FILING DATE: 1998-06-10
40	PRIOR APPLICATION NUMBER: 60/088810
41	PRIOR FILING DATE: 1998-06-11
42	PRIOR APPLICATION NUMBER: 60/088861
43	PRIOR FILING DATE: 1998-06-11
44	PRIOR APPLICATION NUMBER: 60/088876
45	PRIOR FILING DATE: 1998-06-11
46	PRIOR APPLICATION NUMBER: 60/088105
47	PRIOR FILING DATE: 1998-06-12
48	PRIOR APPLICATION NUMBER: 60/089440
49	PRIOR FILING DATE: 1998-06-16
50	PRIOR APPLICATION NUMBER: 60/089512
51	PRIOR FILING DATE: 1998-06-16
52	PRIOR APPLICATION NUMBER: 60/089514
53	PRIOR FILING DATE: 1998-06-16
54	PRIOR APPLICATION NUMBER: 60/089532
55	PRIOR FILING DATE: 1998-06-17
56	PRIOR APPLICATION NUMBER: 60/089538
57	PRIOR FILING DATE: 1998-06-17
58	PRIOR APPLICATION NUMBER: 60/089598
59	PRIOR FILING DATE: 1998-06-17
60	PRIOR APPLICATION NUMBER: 60/089599
61	PRIOR FILING DATE: 1998-06-17
62	PRIOR APPLICATION NUMBER: 60/089600
63	PRIOR FILING DATE: 1998-06-17

1	PRIOR APPLICATION NUMBER: 60/008965
2	PRIOR FILING DATE: 1998-06-17
3	PRIOR APPLICATION NUMBER: 60/008980
4	PRIOR FILING DATE: 1998-06-18
5	PRIOR APPLICATION NUMBER: 60/008990
6	PRIOR FILING DATE: 1998-06-18
7	PRIOR APPLICATION NUMBER: 60/008990
8	PRIOR FILING DATE: 1998-06-18
9	PRIOR APPLICATION NUMBER: 60/008994
10	PRIOR FILING DATE: 1998-06-19
11	PRIOR APPLICATION NUMBER: 60/008948
12	PRIOR FILING DATE: 1998-06-19
13	PRIOR APPLICATION NUMBER: 60/008955
14	PRIOR FILING DATE: 1998-06-19
15	PRIOR APPLICATION NUMBER: 60/009024
16	PRIOR FILING DATE: 1998-06-22
17	PRIOR APPLICATION NUMBER: 60/009033
18	PRIOR FILING DATE: 1998-06-23
19	PRIOR APPLICATION NUMBER: 60/090355
20	PRIOR FILING DATE: 1998-06-23
21	PRIOR APPLICATION NUMBER: 60/090429
22	PRIOR FILING DATE: 1998-06-24
23	PRIOR APPLICATION NUMBER: 60/090445
24	PRIOR FILING DATE: 1998-06-24
25	PRIOR APPLICATION NUMBER: 60/090472
26	PRIOR FILING DATE: 1998-06-24
27	PRIOR APPLICATION NUMBER: 60/090435
28	PRIOR FILING DATE: 1998-06-24
29	PRIOR APPLICATION NUMBER: 60/090444
30	PRIOR FILING DATE: 1998-06-24
31	PRIOR APPLICATION NUMBER: 60/090445
32	PRIOR FILING DATE: 1998-06-24
33	PRIOR APPLICATION NUMBER: 60/090472
34	PRIOR FILING DATE: 1998-06-24
35	PRIOR APPLICATION NUMBER: 60/090535
36	PRIOR FILING DATE: 1998-06-24
37	PRIOR APPLICATION NUMBER: 60/090540
38	PRIOR FILING DATE: 1998-06-24
39	PRIOR APPLICATION NUMBER: 60/090542
40	PRIOR FILING DATE: 1998-06-24
41	PRIOR APPLICATION NUMBER: 60/090557
42	PRIOR FILING DATE: 1998-06-24
43	PRIOR APPLICATION NUMBER: 60/090676
44	PRIOR FILING DATE: 1998-06-25
45	PRIOR APPLICATION NUMBER: 60/090678
46	PRIOR FILING DATE: 1998-06-25
47	PRIOR APPLICATION NUMBER: 60/090690
48	PRIOR FILING DATE: 1998-06-25
49	PRIOR APPLICATION NUMBER: 60/090694
50	PRIOR FILING DATE: 1998-06-25
51	PRIOR APPLICATION NUMBER: 60/090655
52	PRIOR FILING DATE: 1998-06-25
53	PRIOR APPLICATION NUMBER: 60/090696
54	PRIOR FILING DATE: 1998-06-25
55	PRIOR APPLICATION NUMBER: 60/090862
56	PRIOR FILING DATE: 1998-06-26
57	PRIOR APPLICATION NUMBER: 60/090863
58	PRIOR FILING DATE: 1998-06-26
59	PRIOR APPLICATION NUMBER: 60/091360
60	PRIOR FILING DATE: 1998-07-01
61	PRIOR APPLICATION NUMBER: 60/091478
62	PRIOR FILING DATE: 1998-07-02
63	PRIOR APPLICATION NUMBER: 60/091544
64	PRIOR FILING DATE: 1998-07-01
65	PRIOR APPLICATION NUMBER: 60/091519
66	PRIOR FILING DATE: 1998-07-02
67	PRIOR APPLICATION NUMBER: 60/091626
68	PRIOR FILING DATE: 1998-07-02
69	PRIOR APPLICATION NUMBER: 60/091633
70	PRIOR FILING DATE: 1998-07-02
71	PRIOR APPLICATION NUMBER: 62/091978

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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      99.4%; Score 1253; DA 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODDGYITLTIKTRKPAIVSVGASPFMRVMAILLICVGNVGVGVAGIWSVQNRN 60
Db 1 MODDGYITLTIKTRKPAIVSVGASPFMRVMAILLICVGNVGVGVAGIWSVQNRN 60
QY 61 YLQENENRRTCTLOQLAKRFQCYVYVKOSLKGTKGKSCDINMRYGDSCTGFPRHN 120
Db 61 YLQENENRRTCTLOQLAKRFQCYVYVKOSLKGTKGKSCDINMRYGDSCTGFPRHN 120
QY 121 LTWESKQYCTDMNATLTKIDNRNIVEYIKARTHLIRWGLSEKSNVWKEEDGSYISE 180
Db 121 LTWESKQYCTDMNATLTKIDNRNIVEYIKARTHLIRWGLSEKSNVWKEEDGSYISE 180
QY 181 NMFPELDDGKGNMCAFYHNCKAPPTPCENKHYLMCEBKAGMTKVDLP 229
Db 181 NMFPELDDGKGNMCAFYHNCKAPPTPCENKHYLMCEBKAGMTKVDLP 229
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RESULT 37
US-09-990-726-424
; Sequence 424, Application US/0990726
; Publication No. US20030054359A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bostein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottard, Audrey E.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C16
; CURRENT APPLICATION NUMBER: US/09/990.726
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
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; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
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; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
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; PRIOR APPLICATION NUMBER: 60/088028
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; PRIOR APPLICATION NUMBER: 60/088029
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; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
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;; PRIOR FILING DATE: 1998-06-17
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;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089600
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653
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;; PRIOR APPLICATION NUMBER: 60/089801
;; PRIOR FILING DATE: 1998-06-18
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;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
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;; PRIOR APPLICATION NUMBER: 60/090355
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;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
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;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02

;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match Best Local Similarity 99.4%; Score 1253; Db 11; Length 229;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MODEDGYITLTIKTKFPALVSGPSSFWFVMAIILITLGVMTVGVNAGIRVMOEN 60
Db 1 MODEDGYITLTIKTKFPALVSGPSSFWFVMAIILITLGVMTVGVNAGIRVMOEN 60
Qy 61 YLQDENERTGLTQQLANRFGQYVVKQSELKGTFRGKSCSDPTWRYGDSYGFPRHN 120
Db 61 YLQDENERTGLTQQLANRFGQYVVKQSELKGTFRGKSCSDPTWRYGDSYGFPRHN 120
Qy 121 LTWESKQYCTDMNATLTKINDENIYETIKRTHLIRVGLSRQSNFVKWEDGSVTS 180
Db 121 LTWESKQYCTDMNATLTKINDENIYETIKRTHLIRVGLSRQSNFVKWEDGSVTS 180
Qy 181 NMFSEFLDGGKNNCAVFNHNGKAPTFCENKHYLMCEKAKMTVDOLP 229
Db 181 NMFSEFLDGGKNNCAVFNHNGKAPTFCENKHYLMCEKAKMTVDOLP 229

RESULT 38
US-997-559-424

;; Sequence 424, Application US/09997559
;; Publication No. US20030054403A1
;; GENERAL INFORMATION:
;; APPLICANT: Askenazi, Avi J.
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Bolstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Kijavrin, Ivar J.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Par, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Thomas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2730PIC40
;; CURRENT FILING DATE: 2001-11-15
;; PRIOR FILING DATE: 1997-06-16
;; PRIOR APPLICATION NUMBER: 60/049787
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/065186
;; PRIOR FILING DATE: 1997-11-12
;; PRIOR APPLICATION NUMBER: 60/065311

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2	PRIOR APPLICATION NUMBER: 60/066770	2	PRIOR FILING DATE: 1998-06-17
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4	PRIOR APPLICATION NUMBER: 60/075945	4	PRIOR FILING DATE: 1998-06-17
5	PRIOR FILING DATE: 1998-02-25	5	PRIOR APPLICATION NUMBER: 60/089599
6	PRIOR APPLICATION NUMBER: 60/078910	6	PRIOR FILING DATE: 1998-06-17
7	PRIOR FILING DATE: 1998-03-20	7	PRIOR APPLICATION NUMBER: 60/089599
8	PRIOR APPLICATION NUMBER: 60/083322	8	PRIOR FILING DATE: 1998-06-17
9	PRIOR FILING DATE: 1998-04-28	9	PRIOR APPLICATION NUMBER: 60/089600
10	PRIOR APPLICATION NUMBER: 60/084600	10	PRIOR FILING DATE: 1998-06-17
11	PRIOR FILING DATE: 1998-05-07	11	PRIOR APPLICATION NUMBER: 60/089655
12	PRIOR APPLICATION NUMBER: 60/087106	12	PRIOR FILING DATE: 1998-06-17
13	PRIOR FILING DATE: 1998-03-28	13	PRIOR APPLICATION NUMBER: 60/089801
14	PRIOR APPLICATION NUMBER: 60/087607	14	PRIOR FILING DATE: 1998-06-18
15	PRIOR FILING DATE: 1998-06-02	15	PRIOR APPLICATION NUMBER: 60/089907
16	PRIOR APPLICATION NUMBER: 60/087609	16	PRIOR FILING DATE: 1998-06-18
17	PRIOR FILING DATE: 1998-06-02	17	PRIOR APPLICATION NUMBER: 60/089908
18	PRIOR APPLICATION NUMBER: 60/087759	18	PRIOR FILING DATE: 1998-06-18
19	PRIOR FILING DATE: 1998-06-02	19	PRIOR APPLICATION NUMBER: 60/089947
20	PRIOR APPLICATION NUMBER: 60/087827	20	PRIOR FILING DATE: 1998-06-19
21	PRIOR FILING DATE: 1998-06-03	21	PRIOR APPLICATION NUMBER: 60/089948
22	PRIOR APPLICATION NUMBER: 60/088021	22	PRIOR FILING DATE: 1998-06-19
23	PRIOR FILING DATE: 1998-06-04	23	PRIOR APPLICATION NUMBER: 60/089955
24	PRIOR APPLICATION NUMBER: 60/088025	24	PRIOR FILING DATE: 1998-06-19
25	PRIOR FILING DATE: 1998-06-04	25	PRIOR APPLICATION NUMBER: 60/090252
26	PRIOR APPLICATION NUMBER: 60/088026	26	PRIOR FILING DATE: 1998-06-22
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28	PRIOR APPLICATION NUMBER: 60/088028	28	PRIOR FILING DATE: 1998-06-22
29	PRIOR FILING DATE: 1998-06-04	29	PRIOR APPLICATION NUMBER: 60/090349
30	PRIOR APPLICATION NUMBER: 60/088029	30	PRIOR FILING DATE: 1998-06-23
31	PRIOR FILING DATE: 1998-06-04	31	PRIOR APPLICATION NUMBER: 60/090355
32	PRIOR APPLICATION NUMBER: 60/088030	32	PRIOR FILING DATE: 1998-06-23
33	PRIOR FILING DATE: 1998-06-04	33	PRIOR APPLICATION NUMBER: 60/090429
34	PRIOR APPLICATION NUMBER: 60/088033	34	PRIOR FILING DATE: 1998-06-24
35	PRIOR FILING DATE: 1998-06-04	35	PRIOR APPLICATION NUMBER: 60/090431
36	PRIOR APPLICATION NUMBER: 60/089326	36	PRIOR FILING DATE: 1998-06-24
37	PRIOR FILING DATE: 1998-06-04	37	PRIOR APPLICATION NUMBER: 60/090435
38	PRIOR APPLICATION NUMBER: 60/088167	38	PRIOR FILING DATE: 1998-06-24
39	PRIOR FILING DATE: 1998-06-05	39	PRIOR APPLICATION NUMBER: 60/090444
40	PRIOR APPLICATION NUMBER: 60/088202	40	PRIOR FILING DATE: 1998-06-24
41	PRIOR FILING DATE: 1998-06-05	41	PRIOR APPLICATION NUMBER: 60/090445
42	PRIOR APPLICATION NUMBER: 60/088212	42	PRIOR FILING DATE: 1998-06-24
43	PRIOR FILING DATE: 1998-06-05	43	PRIOR APPLICATION NUMBER: 60/090447
44	PRIOR APPLICATION NUMBER: 60/088217	44	PRIOR FILING DATE: 1998-06-24
45	PRIOR FILING DATE: 1998-06-05	45	PRIOR APPLICATION NUMBER: 60/090452
46	PRIOR APPLICATION NUMBER: 60/088655	46	PRIOR FILING DATE: 1998-06-24
47	PRIOR FILING DATE: 1998-06-09	47	PRIOR APPLICATION NUMBER: 60/090535
48	PRIOR APPLICATION NUMBER: 60/088734	48	PRIOR FILING DATE: 1998-06-24
49	PRIOR FILING DATE: 1998-06-10	49	PRIOR APPLICATION NUMBER: 60/090540
50	PRIOR APPLICATION NUMBER: 60/088738	50	PRIOR FILING DATE: 1998-06-24
51	PRIOR FILING DATE: 1998-06-10	51	PRIOR APPLICATION NUMBER: 60/090542
52	PRIOR APPLICATION NUMBER: 60/088742	52	PRIOR FILING DATE: 1998-06-24
53	PRIOR FILING DATE: 1998-06-10	53	PRIOR APPLICATION NUMBER: 60/090557
54	PRIOR APPLICATION NUMBER: 60/088810	54	PRIOR FILING DATE: 1998-06-24
55	PRIOR FILING DATE: 1998-06-10	55	PRIOR APPLICATION NUMBER: 60/090676
56	PRIOR APPLICATION NUMBER: 60/088824	56	PRIOR FILING DATE: 1998-06-25
57	PRIOR FILING DATE: 1998-06-10	57	PRIOR APPLICATION NUMBER: 60/090678
58	PRIOR APPLICATION NUMBER: 60/088926	58	PRIOR FILING DATE: 1998-06-25
59	PRIOR FILING DATE: 1998-06-10	59	PRIOR APPLICATION NUMBER: 60/090690
60	PRIOR APPLICATION NUMBER: 60/088958	60	PRIOR FILING DATE: 1998-06-25
61	PRIOR FILING DATE: 1998-06-11	61	PRIOR APPLICATION NUMBER: 60/090694
62	PRIOR APPLICATION NUMBER: 60/088861	62	PRIOR FILING DATE: 1998-06-25
63	PRIOR FILING DATE: 1998-06-11	63	PRIOR APPLICATION NUMBER: 60/090695
64	PRIOR APPLICATION NUMBER: 60/088876	64	PRIOR FILING DATE: 1998-06-25
65	PRIOR FILING DATE: 1998-06-11	65	PRIOR APPLICATION NUMBER: 60/090696
66	PRIOR APPLICATION NUMBER: 60/089105	66	PRIOR FILING DATE: 1998-06-25
67	PRIOR FILING DATE: 1998-06-12	67	PRIOR APPLICATION NUMBER: 60/090862
68	PRIOR APPLICATION NUMBER: 60/089440	68	PRIOR FILING DATE: 1998-06-26
69	PRIOR FILING DATE: 1998-06-16		


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; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDEYITLNTIKTRKPAIVSVGPASSFWRWVALILLICVAMVGLVALGIWVSQGN 60
DB 1 MODEDEYITLNTIKTRKPAIVSVGPASSFWRWVALILLICVAMVGLVALGIWVSQGN 60
QY 61 YIODENENRTGLQOLAKRPGQYVWQSLKGTPEKHKSPCDTWRRYGSQYGFRRN 120
DB 61 YIODENENRTGLQOLAKRPGQYVWQSLKGTPEKHKSPCDTWRRYGSQYGFRRN 120
QY 121 LTWESKQYCTDMNATLTKIDNRNIVEYIKARTHIFRWGLSRKSNFVWKEDESVSE 180
DB 121 LTWESKQYCTDMNATLTKIDNRNIVEYIKARTHIFRWGLSRKSNFVWKEDESVSE 180
QY 181 NMFELEDEGKNNQCAVFENGKMHPTPCENKYLNCERKAGMTXVDLP 229
DB 181 NMFELEDEGKNNQCAVFENGKMHPTPCENKYLNCERKAGMTXVDLP 229

RESULT 39
US-09-997-601-424
; Sequence 424, Application US/09997601
; Publication No. US2003005440A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Boetsen, David
; APPLICANT: Deshoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertelsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Goddard, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavlin, Yair J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Wataabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1G6
; CURRENT APPLICATION NUMBER: US/09/997,601
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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; PRIOR APPLICATION NUMBER: 60/062250
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;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; D3 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MDEDDYITINITRKPALVSVGPASSFWKRWMAILLILICGVVGLVALGIWSVQNRN 60
Db 1 MDEDDYITINITRKPALVSVGPASSFWKRWMAILLILICGVVGLVALGIWSVQNRN 60
QY 61 YLDENENRGTGQOLAKRCCQYVVKOSELKGTFKHKCSPPCENRYYGDSCTGFFRN 120
Db 61 YLDENENRGTGQOLAKRCCQYVVKOSELKGTFKHKCSPPCENRYYGDSCTGFFRN 120
QY 121 LTVESKQYCTDNATLTKIDNENIVEYIKAPTHLLRWGLSPQKSNBWKWMDGSYISE 180
Db 121 LTVESKQYCTDNATLTKIDNENIVEYIKAPTHLLRWGLSPQKSNBWKWMDGSYISE 180
QY 181 NMEFLEDGKGNKCAVFNHGXKHPFPCENKATLMCBERRAGMTKVDLP 229
Db 181 NMEFLEDGKGNKCAVFNHGXKHPFPCENKATLMCBERRAGMTKVDLP 229

RESULT 40
US-09-990-443-424
; Sequence 424, Application US/09990443
; Publication No. US2003054957A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan U.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerltsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Guiney, Austin U.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Nadler, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Pao, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same

PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
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PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-03

Query Match 99.4% Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-115;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITLNIKTRKPAIVSVGPASSFWWRVMAILLILCVGVVGLVAGISVQNRN 60
DB 1 MODEDGYITLNIKTRKPAIVSVGPASSFWWRVMAILLILCVGVVGLVAGISVQNRN 60
QY 61 YLOENENRRTTLOQIARFCQYVYKQSELGTRGHKCS-CDTNMRYYGSCYGFPRHN 120
DB 61 YLOENENRRTTLOQIARFCQYVYKQSELGTRGHKCS-CDTNMRYYGSCYGFPRHN 120
QY 121 LTWESKQYCTDMNATLTKIDNRNIVETIKARTLILWVGLSRKSNVWKEGYSYISE 180
DB 121 LTWESKQYCTDMNATLTKIDNRNIVETIKARTLILWVGLSRKSNVWKEGYSYISE 180
QY 181 NMFFLEDGKGNMCAVFNHNGKAPTECENGVLMCEKKAQMTKVDDLP 229
DB 181 NMFFLEDGKGNMCAVFNHNGKAPTECENGVLMCEKKAQMTKVDDLP 229

RESULT 41
US-09-991-854-424
Sequence 424; Application US/09991854
Publication No. US20030059780A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Batou, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Goddard, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavari, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tamas, Daniel
APPLICANT: Watanabe, Colin X.

APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C24
CURRENT APPLICATION NUMBER: US/09/991,854
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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 / PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
 Best Local Similarity 99.6%; Pred. No. 4.1e-119;
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MOEDGTYITNTIKTKKALYSVGPASSFWRWVALILILICVNVGVGLVGLVSVQNRN 60
 DB 1 MOEDGTYITNTIKTKKALYSVGPASSFWRWVALILILICVNVGVGLVGLVSVQNRN 60
 QY 61 YLODENENRPGTQOLAKRCCQYVVKOSEIKGTFKHKCSPCDTNNMYEGDSCYGFPRHN 120
 DB 61 YLODENENRPGTQOLAKRCCQYVVKOSEIKGTFKHKCSPCDTNNMYEGDSCYGFPRHN 120
 QY 121 LTWESKQCYCTDMNATLLKIDNNIVEYIKARFHLIHWGLISROKSNBWKWEDGSYISE 180
 DB 121 LTWESKQCYCTDMNATLLKIDNNIVEYIKARFHLIHWGLISROKSNBWKWEDGSYISE 180
 QY 181 NMFEPLEDGKGNKNCAYFHNKXHPFCNKHAYLMCEBKAQWTKVDLP 229
 DB 181 NMFEPLEDGKGNKNCAYFHNKXHPFCNKHAYLMCEBKAQWTKVDLP 229

RESULT 42
 US-09-97-628-424
 / Sequence 424, Application US/09997628
 / Publication No. US20030059782A1
 / GENERAL INFORMATION:
 / APPLICANT: Ashkenazi, Avi J.
 / APPLICANT: Baker, Kevin P.
 / APPLICANT: Botstein, David
 / APPLICANT: Desnoyers, Luc
 / APPLICANT: Eaton, Dan L.
 / APPLICANT: Ferrara, Napoleone
 / APPLICANT: Fong, Sherman
 / APPLICANT: Gerber, Hanspeter
 / APPLICANT: Geritsen, Mary E.
 / APPLICANT: Goddard, Audrey
 / APPLICANT: Godowski, Paul J.
 / APPLICANT: Grimaldi, J. Christopher
 / APPLICANT: Gurney, Austin L.
 / APPLICANT: Kljavin, Ivar J.
 / APPLICANT: Napier, Mary A.
 / APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PLC30
CURRENT FILING DATE: 2001-11-15
PRIOR FILING DATE: 1997-06-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-15
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065185
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10

PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/088440
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PRIOR APPLICATION NUMBER: 60/088514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/088532
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PRIOR APPLICATION NUMBER: 60/088538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/088598
PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/088600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/088653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/088801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/088907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/088908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/088947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/088948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/088952
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PRIOR APPLICATION NUMBER: 60/090345
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PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
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PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557

PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
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PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1257; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MDEDEGTTNTIKRKPAVSVGPASSFWWRVVALILLICVGVVGLVNLGTSWQRYN 60
Db 1 MDEDEGTTNTIKRKPAVSVGPASSFWWRVVALILLICVGVVGLVNLGTSWQRYN 60
QY 61 YLDENENRTGLIQLAKRRCQYVVQSEJKTGFKGKCSPCDTNRRYVDSCTGPFERN 120
Db 61 YLDENENRTGLIQLAKRRCQYVVQSEJKTGFKGKCSPCDTNRRYVDSCTGPFERN 120
QY 121 LTMBSKQYCTDMNATILKIDNENIYVYKATHLIRWGLSRQKSNVWKWEDGSVISE 180
Db 121 LTMBSKQYCTDMNATILKIDNENIYVYKATHLIRWGLSRQKSNVWKWEDGSVISE 180
QY 181 NMFEFJEDGKNNCAVFNKGKMPFCENKHYLMGERAKGTRVQLP 229
Db 181 NMFEFJEDGKNNCAVFNKGKMPFCENKHYLMGERAKGTRVQLP 229

RESULT 43
US-09-997-683-424
Sequence 424, Application US/09997683
Publication No. US20030059783A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Geider, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kiljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC32
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: US/09/997,683
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/065770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734

PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/086738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/086742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/086810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/086824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/086826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/086858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/086861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/086876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
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PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
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PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
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PRIOR APPLICATION NUMBER: 60/090696
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PRIOR APPLICATION NUMBER: 60/090862
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PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1251; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4.1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MOEDGYYITNITKRXALVSGPASPWRVWALLILICVGVVGLVALGWSVQRN 60
Db 1 MOEDGYYITNITKRPALVSGPASPWRVWALLILICVGVVGLVALGWSVQRN 60
QY 61 YLDENENRTGTLQOLAKRFQYVVKQSELKGTFKGKCSPCDNNRYVGDSCYGFRRN 120
Db 61 YLDENENRTGTLQOLAKRFQYVVKQSELKGTFKGKCSPCDNNRYVGDSCYGFRRN 120
QY 121 LTWEESKQVCTDMNATLLTKIDNENIVEYTKARHLLRMVGLSKCKNEVWKWDGVSYSR 180
Db 121 LTWEESKQVCTDMNATLLTKIDNENIVEYTKARHLLRMVGLSKCKNEVWKWDGVSYSR 180
QY 181 NMFEFLDEGKNNKCAVFNHGXHPPTFCENKHYLMCERXAGMTKVDLP 229
Db 181 NMFEFLDEGKNNKCAVFNHGXHPPTFCENKHYLMCERXAGMTKVDLP 229

RESULT 44
US-09-989-729A-424
Sequence 424, Application US/09989729A
Publication No. US20030059831A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone

APPLICANT: Pong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C59
CURRENT APPLICATION NUMBER: US/09/989,729A
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
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PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
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PRIOR APPLICATION NUMBER: 60/083322
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PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
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PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088555
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
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PRIOR APPLICATION NUMBER: 60/088876
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PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
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PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
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PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
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PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
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PRIOR FILING DATE: 1998-06-24
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PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445

PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
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PRIOR FILING DATE: 1998-06-24
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PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; P-red. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITLNIKIRKPAIVSVGPASSFWRMVALILILICVGVVGLVAGTMSVKQPN 60
DB 1 MODEDGYITLNIKIRKPAIVSVGPASSFWRMVALILILICVGVVGLVAGTMSVKQPN 60
QY 61 VIADENNERGTLOOLAKRPGQYVVKOSHLKGTFFGHKSPCDTWRYVYSGSCYFFPHN 120
DB 61 VIADENNERGTLOOLAKRPGQYVVKOSHLKGTFFGHKSPCDTWRYVYSGSCYFFPHN 120
QY 121 LTWESKQYCTDMNATLTKIDNRNTVEYIKARTHLIRWGLSRKSNSEWVKWEDSGVISE 180
DB 121 LTWESKQYCTDMNATLTKIDNRNTVEYIKARTHLIRWGLSRKSNSEWVKWEDSGVISE 180
QY 181 NMFEPLSDGKNNNCAYFENGKMHPTFCNKYIYLMCERASMTKYDOLP 229
DB 181 NMFEPLSDGKNNNCAYFENGKMHPTFCNKYIYLMCERASMTKYDOLP 229

RESULT 45
US-09-997-349-424
Sequence 424, Application US/09997349
Publication No. US20030059832A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavitt, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCES: P2730P1C37
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MOEDGYITNITRKALVSGPASSFWRRVALLILLCVGVVGLVALGITSVQRN 60
D 1 MOEDGYITNITRKALVSGPASSFWRRVALLILLCVGVVGLVALGITSVQRN 60
QY 1 LODENENRGTLOQLAKRFQYVYXSELEKGFKGKCSPCDTNFWYVYDSCYGFRRN 120
D 1 LODENENRGTLOQLAKRFQYVYXSELEKGFKGKCSPCDTNFWYVYDSCYGFRRN 120
QY 121 LTWESKQYCTDMATLTKIDNRNIVEYIARLTHLIRWGLSROKSNEVMKEDGSYISE 180
D 121 LTWESKQYCTDMATLTKIDNRNIVEYIARLTHLIRWGLSROKSNEVMKEDGSYISE 180
QY 181 NMEFFLEDGKNNKCAFEHNGKAPTECEKXHYTCERKXGKMTKVDLP 229
D 181 NMEFFLEDGKNNKCAFEHNGKAPTECEKXHYTCERKXGKMTKVDLP 229
QY 181 NMEFFLEDGKNNKCAFEHNGKAPTECEKXHYTCERKXGKMTKVDLP 229
D 181 NMEFFLEDGKNNKCAFEHNGKAPTECEKXHYTCERKXGKMTKVDLP 229

RESULT 46
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US-09-997-440-424
Sequence 424, Application US/09997440
Publication No. US2003005983A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C31
CURRENT FILING DATE: US/09/997,440
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DA 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;

Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITLNIKTRKPAIVSVGPASSFWKVMALITLIGGVAVGVALGIMSVQNRN 60
DB 1 MODEDGYITLNIKTRKPAIVSVGPASSFWKVMALITLIGGVAVGVALGIMSVQNRN 60
QY 61 YLQENENRRTGTLOQLARFCQYVYKQSELGKTRKHKSCPTNNRYYGDSCTGFPRHN 120
DB 61 YLQENENRRTGTLOQLARFCQYVYKQSELGKTRKHKSCPTNNRYYGDSCTGFPRHN 120
QY 121 LTWESKQYCTDNNAATLTKIDNRNIVYIKARTHLIRVWGSROKSNVWMEHDSVYSE 180
DB 121 LTWESKQYCTDNNAATLTKIDNRNIVYIKARTHLIRVWGSROKSNVWMEHDSVYSE 180
QY 181 NMEFLEDDGKNNKCAVFNHNGKHPTECENKHYLMCEKAKGMYDOLP 229

DB 181 NMEFLEDDGKNNKCAVFNHNGKHPTECENKHYLMCEKAKGMYDOLP 229
RESULT 47
US-09-990-440-424
Sequence 424, Application US/09990440
Publication No. US20030060407A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
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APPLICANT: Paoni, Nicholas F.
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APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C21
CURRENT APPLICATION NUMBER: US/09/990,440
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
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PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 229; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYITLNIKTRKPAIVSGPASPFWRMVALLILLCVGNVVGIVAGIVSVQRN 60
DB : MODEGGYITLNIKTRKPAIVSGPASPFWRMVALLILLCVGNVVGIVAGIVSVQRN 60
QY 61 YLQDENNRGTGLQGLARFCQYVVKQSELGTGFKGHCSPCDTNWRYGDSVGFPPHN 120
DB 61 YLQDENNRGTGLQGLARFCQYVVKQSELGTGFKGHCSPCDTNWRYGDSVGFPPHN 120

QY 121 LTWESKQYCTMDNATLTKIDRNIVEYIKARTHLIRWGLSRKSNSEVWKWEDGSVSE 180
DB 121 LTWESKQYCTMDNATLTKIDRNIVEYIKARTHLIRWGLSRKSNSEVWKWEDGSVSE 180
QY 181 NMFEFLDGKGNMNCAYFNGSKAPFTFCENKXYLMOCERRAGMKTVDLP 229
DB 181 NMFEFLDGKGNMNCAYFNGSKAPFTFCENKXYLMOCERRAGMKTVDLP 229

RESULT 48

US-09-993-469-424
; Sequence 424, Application US/09993469
; Publication No. US20030068623A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLES OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PIC5
; CURRENT APPLICATION NUMBER: US/09/993,469
; PRIOR FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
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; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04

; PRIOR APPLICATION NUMBER: 60/088025
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; PRIOR APPLICATION NUMBER: 60/088655
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; PRIOR FILING DATE: 1998-06-10
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; PRIOR FILING DATE: 1998-06-10
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; PRIOR APPLICATION NUMBER: 60/088810
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; PRIOR APPLICATION NUMBER: 60/089952

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PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYITLNIKTKKPAIVSVGPASSFWRVMAILLILLCVGVVGVGALGINSVMQDN 60
DB 1 MODEGGYITLNIKTKKPAIVSVGPASSFWRVMAILLILLCVGVVGVGALGINSVMQDN 60

QY 61 YLDENENNRGTGTOQIAKRFQYVVKOSLKGTFKCHKSCPDCTMRYYGDSYGFRRN 120
YLDENENNRGTGTOQIAKRFQYVVKOSLKGTFKCHKSCPDCTMRYYGDSYGFRRN 120
DB 61 YLDENENNRGTGTOQIAKRFQYVVKOSLKGTFKCHKSCPDCTMRYYGDSYGFRRN 120
QY 121 LTMESKQYCTDMNATLITDNNITVEYIKAPTHLIRMGSLSKNSNRYMKMGDSVISH 180
LTMESKQYCTDMNATLITDNNITVEYIKAPTHLIRMGSLSKNSNRYMKMGDSVISH 180
DB 121 LTMESKQYCTDMNATLITDNNITVEYIKAPTHLIRMGSLSKNSNRYMKMGDSVISH 180
QY 181 NMEFLEJEDGKNNNCAYFHNKGXHPFCENKHYLMGCRKAGMTKVDLP 229
NMEFLEJEDGKNNNCAYFHNKGXHPFCENKHYLMGCRKAGMTKVDLP 229
DB 181 NMEFLEJEDGKNNNCAYFHNKGXHPFCENKHYLMGCRKAGMTKVDLP 229

RESULT 49
US-09-597-542-424
Sequence 424, Application US/09997542
Publication No. US20030068647A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnuyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Goddard, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tamas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C26
CURRENT APPLICATION NUMBER: US/09/997,542
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759

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3	PRIOR FILING DATE: 1998-06-03
4	PRIOR APPLICATION NUMBER: 60/080021
5	PRIOR FILING DATE: 1998-06-04
6	PRIOR APPLICATION NUMBER: 60/080925
7	PRIOR FILING DATE: 1998-06-05
8	PRIOR APPLICATION NUMBER: 60/08026
9	PRIOR FILING DATE: 1998-06-04
10	PRIOR APPLICATION NUMBER: 60/080828
11	PRIOR FILING DATE: 1998-06-04
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13	PRIOR FILING DATE: 1998-06-04
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15	PRIOR FILING DATE: 1998-06-04
16	PRIOR APPLICATION NUMBER: 60/08033
17	PRIOR FILING DATE: 1998-06-04
18	PRIOR APPLICATION NUMBER: 60/083326
19	PRIOR FILING DATE: 1998-06-04
20	PRIOR APPLICATION NUMBER: 60/088167
21	PRIOR FILING DATE: 1998-06-05
22	PRIOR APPLICATION NUMBER: 60/08202
23	PRIOR FILING DATE: 1998-06-05
24	PRIOR APPLICATION NUMBER: 60/083212
25	PRIOR FILING DATE: 1998-06-05
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34	PRIOR APPLICATION NUMBER: 60/08742
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51	PRIOR FILING DATE: 1998-06-16
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65	PRIOR FILING DATE: 1998-06-17
66	PRIOR APPLICATION NUMBER: 60/089653
67	PRIOR FILING DATE: 1998-06-17
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70	PRIOR APPLICATION NUMBER: 60/089807
71	PRIOR FILING DATE: 1998-06-18
72	PRIOR APPLICATION NUMBER: 60/089808
73	PRIOR FILING DATE: 1998-06-19
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3	PRIOR APPLICATION NUMBER: 60/0899484
4	PRIOR FILING DATE: 1998-06-19
5	PRIOR APPLICATION NUMBER: 60/0899522
6	PRIOR FILING DATE: 1998-06-19
7	PRIOR APPLICATION NUMBER: 60/030246
8	PRIOR FILING DATE: 1998-06-22
9	PRIOR APPLICATION NUMBER: 60/030252
10	PRIOR FILING DATE: 1998-06-22
11	PRIOR APPLICATION NUMBER: 60/030254
12	PRIOR FILING DATE: 1998-06-22
13	PRIOR APPLICATION NUMBER: 60/030349
14	PRIOR FILING DATE: 1998-06-23
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16	PRIOR FILING DATE: 1998-06-23
17	PRIOR APPLICATION NUMBER: 60/030429
18	PRIOR FILING DATE: 1998-06-24
19	PRIOR APPLICATION NUMBER: 60/030431
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21	PRIOR APPLICATION NUMBER: 60/030435
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43	PRIOR APPLICATION NUMBER: 60/030659
44	PRIOR FILING DATE: 1998-06-25
45	PRIOR APPLICATION NUMBER: 60/030666
46	PRIOR FILING DATE: 1998-06-25
47	PRIOR APPLICATION NUMBER: 60/030682
48	PRIOR FILING DATE: 1998-06-26
49	PRIOR APPLICATION NUMBER: 60/030683
50	PRIOR FILING DATE: 1998-06-26
51	PRIOR APPLICATION NUMBER: 60/031360
52	PRIOR FILING DATE: 1998-07-01
53	PRIOR APPLICATION NUMBER: 60/031478
54	PRIOR FILING DATE: 1998-07-02
55	PRIOR APPLICATION NUMBER: 60/031544
56	PRIOR FILING DATE: 1998-07-01
57	PRIOR APPLICATION NUMBER: 60/031519
58	PRIOR FILING DATE: 1998-07-02
59	PRIOR APPLICATION NUMBER: 60/031626
60	PRIOR FILING DATE: 1998-07-02
61	PRIOR APPLICATION NUMBER: 60/031633
62	PRIOR FILING DATE: 1998-07-02
63	PRIOR APPLICATION NUMBER: 60/031978
64	PRIOR FILING DATE: 1998-07-01
65	PRIOR APPLICATION NUMBER: 60/031982
66	PRIOR FILING DATE: 1998-07-01
67	PRIOR APPLICATION NUMBER: 60/032182
68	PRIOR FILING DATE: 1998-07-09

Query Match	99.48%	Score 1253;	DB 11;	Length 229;
Best Local Similarity	99.64%	Pred. No. 4.1e-119;		

Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGYITINIKRKPAIVSVGPASSFWWRVVALILLVGVVGLVALGIMSVQWRN 60
 DB 1 M03BDGVTITINIKRKPAIVSVGPASSFWWRVVALILLVGVVGLVALGIMSVQWRN 60

QY 61 YL0DENENRGTGLLOQLAKRCQYVVKOSSEKGTFTKHKCSPTDTHWRYGDSCTGPRRN 120
 DB 61 YL0DENENRGTGLLOQLAKRCQYVVKOSSEKGTFTKHKCSPTDTHWRYGDSCTGPRRN 120

QY 121 LTMESKQYCTDMWATLLKTDNRIVETIKARHTLIIWGLSPRKSNEVWKWEDGSYISE 180
 DB 121 LTMESKQYCTDMWATLLKTDNRIVETIKARHTLIIWGLSPRKSNEVWKWEDGSYISE 180

QY 181 NMEEFLDGGKNNMCAYFENGKMHPTFCENKHYLMCKERKAGMTKVQQLP 229
 DB 181 NMEEFLDGGKNNMCAYFENGKMHPTFCENKHYLMCKERKAGMTKVQQLP 229

RESULT 50
 US-09-993-748-424
 ; Sequence 424, Application US/09993748
 ; Publication No. US20030069403A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi J.
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gertelsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Guiney, Austin L.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanabe, Colin K.
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; TITLE OF INVENTION: Acids Encoding the Same
 ; FILE REFERENCE: P2730PIC23
 ; CURRENT APPLICATION NUMBER: US/09/993,748
 ; CURRENT FILING DATE: 2001-11-14
 ; PRIOR APPLICATION NUMBER: 60/049787
 ; PRIOR FILING DATE: 1997-06-16
 ; PRIOR APPLICATION NUMBER: 60/062250
 ; PRIOR FILING DATE: 1997-10-17
 ; PRIOR APPLICATION NUMBER: 60/065186
 ; PRIOR FILING DATE: 1997-11-12
 ; PRIOR APPLICATION NUMBER: 60/065311
 ; PRIOR FILING DATE: 1997-11-13
 ; PRIOR APPLICATION NUMBER: 60/066770
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 ; PRIOR FILING DATE: 1998-04-28
 ; PRIOR APPLICATION NUMBER: 60/084600
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 ;; PRIOR APPLICATION NUMBER: 60/088021
 ;; PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-07-07
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PRIOR FILING DATE: 1998-07-07

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PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MDEDEGYITLNIKTRKPAIVSVGPASSFWFWMAIIILICVGVVGLVALGIKSVQRN 60
DB 1 MDEDEGYITLNIKTRKPAIVSVGPASSFWFWMAIIILICVGVVGLVALGIKSVQRN 60
QY 61 YLQDENENRGTGLQOLAKRSCQYVVKOSGLGTFKGRKSCPDITNWRVYVGS CYGFFPHN 120
DB 61 YLQDENENRGTGLQOLAKRSCQYVVKOSGLGTFKGRKSCPDITNWRVYVGS CYGFFPHN 120
QY 121 LTWESKQYCTDMNATILKIDNRNIVEYIKARITHLIRWVGLSRQKSNVWKEVWEDGSVISE 180
DB 121 LTWESKQYCTDMNATILKIDNRNIVEYIKARITHLIRWVGLSRQKSNVWKEVWEDGSVISE 180
QY 181 NMFEFLDGKGNMCAVPHNGKMEPTFCENKHVLMCEKKAQNTKYDQLP 229
DB 181 NMFEFLDGKGNMCAVPHNGKMEPTFCENKHVLMCEKKAQNTKYDQLP 229

Search completed: December 3, 2003, 08:49:10
Job time : 33 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 3, 2003, 08:42:22 ; Search time 41 Seconds

(without alignments)
886.546 Million cell updates/sec

Title: US-09-903-190-97

Perfect score: 1261

Sequence: 1 M0DEBGTITLTKTRKRALV.....NKHYLMCEERKAGMTKVDLP 229

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : A_Geneseq.19Jun03.*

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23: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2002.DAT.*
24: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1261	100.0	229	20	AA159666
2	1253	99.4	229	21	AA166765
3	1253	99.4	229	22	AA12432
4	1253	99.4	229	22	AA165288
5	1253	99.4	229	24	ABU66810
6	1253	99.4	229	24	ABU67105
7	1253	99.4	229	24	ABU59911
8	1253	99.4	229	24	ABU59181
9	1253	99.4	229	24	ABU59328

10	1253	99.4	229	24	ABU59477	Novel human secret
11	1253	99.4	229	24	ABU60612	Human secreted/tr
12	1253	99.4	229	24	ABU58103	Human PRO polypept
13	1253	99.4	229	24	ABU59034	Human secreted/tr
14	1253	99.4	229	24	ABU13994	Human PRO1384 poly
15	1253	99.4	229	24	ABU10949	Human PRO polypept
16	1245	96.7	229	23	ABP43587	Membrane bound pro
17	1245	98.7	229	24	ABR39424	Human GENSER polyp
18	1231.5	97.7	228	22	AAU02495	Human secreted pro
19	1212.5	96.2	257	22	AAU25751	Human protein sequ
20	776	61.5	229	22	AAU02496	Marine secreted pr
21	352.5	28.0	280	20	AAU05317	Human secreted pro
22	352.5	28.0	280	21	AAU2639	Human ORFX ORP383
23	352.5	28.0	280	21	AAU66728	Membrane-bound pro
24	352.5	28.0	280	20	AAE11932	Human CG27 (or C86
25	352.5	28.0	280	22	AAE11938	Human lipid metabo
26	352.5	28.0	280	22	AAU29324	Human PRO polypept
27	352.5	28.0	280	22	AAU93544	Human polypeptide,
28	352.5	28.0	280	22	AAU12400	Human PRO1131 poly
29	352.5	28.0	280	22	AAU2400	Human PRO1131 (UNQ
30	352.5	28.0	280	22	AAU65251	Human PRO1131 prot
31	352.5	28.0	280	23	ABP64805	Human protein SQ
32	352.5	28.0	280	23	ABP95505	Human angio genesis
33	352.5	28.0	280	23	ABP84899	Human PRO1131 prot
34	352.5	28.0	280	24	ABU71412	Human PRO1131 prot
35	352.5	28.0	280	24	ABU71425	Human neoplasia in
36	352.5	28.0	280	24	ABU65869	Human secreted/tr
37	352.5	28.0	280	24	ABU66202	Novel human secret
38	352.5	28.0	280	24	ABU66798	Human PRO polypept
39	352.5	28.0	280	24	ABU67074	Human secreted/tr
40	352.5	28.0	280	24	ABU67706	Human secreted/tr
41	352.5	28.0	280	24	ABU58979	Novel secreted and
42	352.5	28.0	280	24	ABU65564	Human PRO polypept
43	352.5	28.0	280	24	ABU58144	Novel human secret
44	352.5	28.0	280	24	ABU59291	Human secreted/tr
45	352.5	28.0	280	24	ABU59440	Novel human secret
46	352.5	28.0	280	24	ABU60575	Human secreted/tr
47	352.5	28.0	280	24	ABU58066	Human PRO polypept
48	352.5	28.0	280	24	ABU58700	Human PRO polypept
49	352.5	28.0	280	24	ABU58997	Human secreted/tr
50	352.5	28.0	280	24	ABU56236	Human secreted/tr
51	352.5	28.0	280	24	ABU57231	Human PRO polypept
52	352.5	28.0	280	24	ABU13957	Human PRO1131 poly
53	352.5	28.0	280	24	ABU10810	Human secreted/tr
54	352.5	28.0	280	24	ABU10912	Human PRO polypept
55	350.5	27.8	284	22	AAU3622	Human oxidised LDL
56	339	26.9	307	22	AAE11939	Human lipid metabo
57	339	26.9	307	22	ABP64810	Human protein SQ
58	339	26.9	314	22	AAE11933	Human CG27 (or C86
59	326.5	25.9	288	22	AAE11926	NOVX related prote
60	309	24.5	268	24	ABU13328	NOVX related prote
61	309	24.5	275	24	ABU13327	Human secreted/tr
62	299.5	22.8	247	20	AAU27448	Human SDCMP4 poly
63	299.5	22.8	247	20	AAU73889	Human DC3 protein
64	299.5	23.8	247	24	ABP82496	Human DC3 polypept
65	299.5	23.8	247	24	ABP82496	LR-J34-2 polypept
66	291	23.1	247	22	AAE11934	Human CG27 (or C86
67	288	22.8	244	19	AAU63009	Mouse dectin-1. M
68	288	22.8	244	24	ABP82844	Mouse dectin-1. M
69	283.5	22.5	201	20	AAU27449	Human SDCMP4 short
70	280.5	22.2	201	19	AAU52837	Human C-type lecti
71	279.5	22.2	201	20	AAU41764	Human PRO1082 prot
72	279.5	22.2	201	20	AAU73888	Human DC3 protein
73	279.5	22.2	201	21	AAU24320	Human PRO1082 (UNQ
74	279.5	22.2	201	22	AAU29377	Human PRO polypept
75	279.5	22.2	201	23	ABP90372	Human polypeptide
76	279.5	22.2	201	24	ABU71165	Human PRO1082 prot
77	279.5	22.2	201	24	ABU65622	Human secreted/tr
78	279.5	22.2	201	24	ABU65855	Novel human secret
79	279.5	22.2	201	24	ABU67459	Human secreted/tr
80	279.5	22.2	201	24	ABU61150	Human PRO1082 poly
81	279.5	22.2	201	24	ABU65317	Human PRO polypept
82	279.5	22.2	201	24	ABU58453	Human PRO polypept

83	279.5	22.2	201	24	ABU55989	Human secreted/tra
84	279.5	22.2	201	24	ABU56984	Human PRO polypept
85	279.5	22.2	201	24	ABU58283	Human Decrin-1 pol
86	279.5	22.2	201	24	ABU10563	Human secreted/tra
87	279.5	22.2	201	24	ABU82495	ILR-J24-1 polypept
88	277.5	22.0	281	22	ABU11943	Human CG27 (or C86
89	274	21.7	289	22	ABU11776	Human macrophage A
90	274	21.7	289	22	AAW79324	Human protein SEQ
91	266.5	21.1	278	22	ABU5871	O. cuniculus LOX-1
92	265	21.0	265	20	AAW02283	Secreted protein c
93	265	21.0	265	22	AAW78340	Human protein SEQ
94	265	21.0	265	23	ABU08507	Human C-type lecti
95	264	20.9	272	19	AAW40215	Human macrophage a
96	263.5	20.9	248	21	AAW67087	Human secreted pro
97	263.5	20.9	248	22	AAW33892	Human BGT encoded
98	263.5	20.9	248	22	AAW06064	Human gene 24 enco
99	263.5	20.9	248	23	ABU33896	Human secreted pro
100	255.5	20.3	199	19	AAW63016	Mouse decrin-1 iso

ALIGNMENTS

RESULT 1
AA59666 standard; Protein; 229 AA.

AA59666;

18-JAN-2000 (first entry)

Secreted protein 108-004-5-0-G6-FL.

Secreted protein; fingerprint identification technique;
chromosome mapping; human; hereditary disease; diagnosis; cancer;
hyperlipidaemia; cardiovascular; neurodegenerative disorder; therapy;
autoimmune disease; rheumatic disease; embryonic disorder; myopathy;
renal injury; amino aciduria; hypoglycaemia; male rat infertility;
hypertension.

Homo sapiens.

WO9940189-A2.

12-AUG-1999.

09-FEB-1999; 99WO-1B00262.

09-FEB-1998; 98US-0074121.

13-APR-1998; 98US-0081563.

10-AUG-1998; 98US-0095116.

04-SEP-1998; 98US-0095273.

(GENSET) GENSET.

Bougueleret L, Duclert A, Dumas Milne Edwards J;

WPI; 1999-600366/51.

N-PSDB; AAZ40794.

Extended cDNAs useful for expressing secreted proteins and to obtain

specific antibodies -

Claim 10, Page 194-195; 244pp; English.

This sequence represents a human secreted protein of the invention.
The extended cDNAs (or genomic DNAs obtainable from them) may be used to
prepare PCR primers and probes. These are useful for forensic matching or
positive identification by DNA sequencing. They may also be used in
alternative fingerprint identification techniques. Antibodies against the
proteins encoded by the extended cDNAs are useful in identification of
tissue types or cell species, as well as identifying tissue specific
soluble proteins. The sequences can be used for chromosome mapping and

identification of genes associated with hereditary diseases or drug
response. signal sequences from the cDNAs can be used in construction of
secretion vectors. Other sequences derived from the extended cDNAs can be
used to clone upstream genomic DNA sequences including promoters. This is
in turn useful for identifying proteins that interact with promoter
sequences. Some of the proteins may be useful in diagnosing and treating
several disorders including, but not limited to: cancer, hyperlipidaemia,
cardiovascular and neurodegenerative disorders, autoimmune diseases, and
renal diseases, embryonic disorders, hypertension, renal injury,
amino acidurias, hypoglycaemia, male rat infertility and myopathies.

Query Match 100.0%; Score 1261; DB 20; Length 229;
Best Local Similarity 100.0%; Pred. No. 1e-119;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 MOEDGTYITNITKRNALVSGPASPFWNRVALLILICVGVVGLVALGWSVQNRN 60

61 YLDDENENRTGLQOLAKRPGQYVVKOSLKGTFKHKOSPCDTNWRYYDSCYGFPRN 120
61 YLDDENENRTGLQOLAKRPGQYVVKOSLKGTFKHKOSPCDTNWRYYDSCYGFPRN 120

121 LTWEESKYCTDMNATLKTIDNENIVYITARTHLIRWGLSPKSKSEWKKWEDGSYISE 180
121 LTWEESKYCTDMNATLKTIDNENIVYITARTHLIRWGLSPKSKSEWKKWEDGSYISE 180

181 NMPEFLDGGKNNMCAFFNGKXKAPTCEKXHYLMCRKXKAGTVDLP 229
181 NMPEFLDGGKNNMCAFFNGKXKAPTCEKXHYLMCRKXKAGTVDLP 229

AA59666 standard; protein; 229 AA.

AA59666;

05-APR-2000 (first entry)

Membrane-bound protein PRO1384.

Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;

pharmaceutical; receptor immunoadhesin; gene mapping.

Homo sapiens.

WO9963088-A2.

09-DEC-1999.

02-JUN-1999; 99WO-US12252.

02-JUN-1998; 98US-0087607.

02-JUN-1998; 98US-0087609.

02-JUN-1998; 98US-0087755.

03-JUN-1998; 98US-0087827.

04-JUN-1998; 98US-0088021.

04-JUN-1998; 98US-0088025.

04-JUN-1998; 98US-0088028.

04-JUN-1998; 98US-0088029.

04-JUN-1998; 98US-0088030.

04-JUN-1998; 98US-0088033.

04-JUN-1998; 98US-0088326.

05-JUN-1998; 98US-0088167.

05-JUN-1998; 98US-0088202.

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05-JUN-1998; 98US-0088217.

09-JUN-1998; 98US-0088655.

10-JUN-1998; 98US-0088722.

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PR 12-JUN-1998; 98US-0088900.
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PR 16-JUN-1998; 98US-0088940.
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PR 17-JUN-1998; 98US-0088952.
PR 17-JUN-1998; 98US-0088953.
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PR 17-JUN-1998; 98US-0088959.
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PR 18-JUN-1998; 98US-0088980.
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PR 22-JUN-1998; 98US-0090252.
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PR 24-JUN-1998; 98US-0090429.
PR 24-JUN-1998; 98US-0090431.
PR 24-JUN-1998; 98US-0090435.
PR 24-JUN-1998; 98US-0090444.
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PR 24-JUN-1998; 98US-0090472.
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PR 25-JUN-1998; 98US-0090676.
PR 25-JUN-1998; 98US-0090678.
PR 25-JUN-1998; 98US-0090680.
PR 25-JUN-1998; 98US-0090690.
PR 25-JUN-1998; 98US-0090691.
PR 25-JUN-1998; 98US-0090694.
PR 25-JUN-1998; 98US-0090695.
PR 25-JUN-1998; 98US-0090696.
PR 26-JUN-1998; 98US-0090862.
PR 26-JUN-1998; 98US-0090863.
PR 01-JUL-1998; 98US-0093358.
PR 01-JUL-1998; 98US-0093360.
PR 01-JUL-1998; 98US-0093364.
PR 02-JUL-1998; 98US-0091478.
PR 02-JUL-1998; 98US-0091486.
PR 02-JUL-1998; 98US-0091519.
PR 02-JUL-1998; 98US-0091526.
PR 02-JUL-1998; 98US-0091628.
PR 02-JUL-1998; 98US-0091633.
PR 02-JUL-1998; 98US-0091646.
PR 02-JUL-1998; 98US-0091673.
PR 07-JUL-1998; 98US-0091978.
PR 07-JUL-1998; 98US-0091982.
PR 09-JUL-1998; 98US-0092182.
PR 10-JUL-1998; 98US-0092472.
PR 20-JUL-1998; 98US-0093339.

PR 30-JUL-1998; 98US-0093451.
PR 04-AUG-1998; 98US-0093282.
PR 04-AUG-1998; 98US-0093285.
PR 04-AUG-1998; 98US-0093301.
PR 04-AUG-1998; 98US-0093302.
PR 04-AUG-1998; 98US-0093318.
PR 04-AUG-1998; 98US-0093321.
PR 04-AUG-1998; 98US-0093325.
PR 10-AUG-1998; 98US-0093916.
PR 10-AUG-1998; 98US-0093929.
PR 10-AUG-1998; 98US-0096012.
PR 11-AUG-1998; 98US-0096143.
PR 11-AUG-1998; 98US-0096146.
PR 12-AUG-1998; 98US-0096329.
PR 17-AUG-1998; 98US-0096757.
PR 17-AUG-1998; 98US-0096766.
PR 17-AUG-1998; 98US-0096768.
PR 17-AUG-1998; 98US-0096773.
PR 17-AUG-1998; 98US-0096791.
PR 17-AUG-1998; 98US-0096791.
PR 17-AUG-1998; 98US-0096867.
PR 17-AUG-1998; 98US-0096891.
PR 17-AUG-1998; 98US-0096894.
PR 17-AUG-1998; 98US-0096895.
PR 17-AUG-1998; 98US-0096897.
PR 18-AUG-1998; 98US-0096949.
PR 18-AUG-1998; 98US-0096950.
PR 18-AUG-1998; 98US-0096959.
PR 18-AUG-1998; 98US-0096960.
PR 18-AUG-1998; 98US-0097022.
PR 19-AUG-1998; 98US-0097141.
PR 20-AUG-1998; 98US-0097218.
PR 24-AUG-1998; 98US-0097661.
PR 26-AUG-1998; 98US-0097351.
PR 26-AUG-1998; 98US-0097352.
PR 26-AUG-1998; 98US-0097354.
PR 26-AUG-1998; 98US-0097355.
PR 26-AUG-1998; 98US-0097391.
PR 26-AUG-1998; 98US-0097394.
PR 26-AUG-1998; 98US-0097396.
PR 26-AUG-1998; 98US-0097397.
PR 26-AUG-1998; 98US-0097399.
PR 26-AUG-1998; 98US-0098014.
PR 31-AUG-1998; 98US-0098025.
PR 16-SEP-1998; 98US-0100064.
PR 12-JAN-1999; 98US-0115385.

(GETH) GENENTECH INC.
BAKER K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
Wood WI, Yuan J;
WPI; 2000-072883/05.
N-PSDB; AA265111.

Membrane-bound proteins and related nucleotide sequences -
claim 12; Fig 306; 822pp; English.

The invention provides membrane-bound PRO polypeptides and
CC polynucleotides encoding them. The PRO sequences of the invention were
CC identified based on extracellular domain homology screening. The PRO
CC sequences have homology with proteins including LDL receptors, TIR
CC ligands and various enzymes. The membrane-bound proteins and receptor
CC molecules are useful as pharmaceutical and diagnostic agents. Receptor
CC immunoadhesins, for instance, can be used as therapeutic agents to block
CC receptor-ligand interactions. The membrane-bound proteins can also be
CC employed for screening of potential peptide or small molecule inhibitors
CC of the relevant receptor/ligand interaction. The PRO encoding sequences
CC are useful as hybridization probes, in chromosome and gene mapping and in
CC the generation of antisense RNA and DNA. PRO nucleic acid sequences
CC will also be useful for the preparation of PRO polypeptides, especially
CC by recombinant techniques.
XX

SQ Sequence 229 AA;
 Query Match 99.4%; Score 1253; DB 21; Length 229;
 Best Local Similarity 99.6%; Pred. No. 6.5e-119;
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODDDGYITLTIKIKRKPALVSVPASSFWRMVLLILLICVGVVGVVGLGITSWQRN 60
 DB 1 MODDDGYITLTIKIKRKPALVSVPASSFWRMVLLILLICVGVVGVVGLGITSWQRN 60
 QY 61 YLDENENRIGTTLQOLAKRFQCYVVKOSLKGTFKGHKCSPCDINWRYGDSYGFPRHN 120
 DB 61 YLDENENRIGTTLQOLAKRFQCYVVKOSLKGTFKGHKCSPCDINWRYGDSYGFPRHN 120
 QY 121 LTWEESKQYCTDMNNTLLIKIDNRNIVEYIKARTHLIRWVGLSRQKSNLWKMEDGSVISE 180
 DB 121 LTWEESKQYCTDMNNTLLIKIDNRNIVEYIKARTHLIRWVGLSRQKSNLWKMEDGSVISE 180
 QY 181 NMPEFLBDGKGNMCAVFNHNGKMEPTFCENKHYILMCEKAKMTVDQLP 229
 DB 181 NMPEFLBDGKGNMCAVFNHNGKMEPTFCENKHYILMCEKAKMTVDQLP 229

RESULT 3
 AUI2432
 ID AUI2432 standard; Protein; 229 AA.
 AC AUI2432;
 DT 24-OCT-2001 (first entry)
 DE Human PRO1384 polypeptide sequence.
 KW Human secretory and transmembrane; PRO; mammalian; cancer; lung;
 breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
 cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
 adipocyte; A-peptide; factor VIIa; gene therapy.
 OS Homo sapiens.
 FN WO200140466-A2.
 PD 07-JUN-2001.
 PF 01-DEC-2000; 2000WO-US32678.
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28564.
 PR 09-DEC-1999; 99US-0170262.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 20-DEC-1999; 99WO-US30999.
 PR 30-DEC-1999; 99WO-US31243.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 10-NOV-2000; 2000WO-US30873.

XX (GENT) GENENTECH INC.
 PA Baker KP, Beresini M, DeGeorge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX WPL; 2001-408281/43.
 DR N-PSDB; AAS21504.
 XX Isolated, secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing
 PT PRO polypeptides, and detect the presence of mammalian tumors e.g.
 PT lung, breast, prostate, cervical
 XX Claim 12; Fig 522; 813pp; English.
 CC AAU12172-AAU12446 represent novel human secretory and transmembrane
 CC PRO polypeptides. The PRO polypeptides are useful to detect other
 CC PRO polypeptides, to link bioactive molecules to cells expressing
 CC PRO polypeptides, to modulate biological activities of cells expressing
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumors by comparing PRO
 CC polypeptide expression in a cell sample to that in a control sample.
 CC Some of the 275 sequences are also useful to stimulate the release of
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
 CC proliferation or differentiation of chondrocytes, the proliferation or
 CC gene expression in pericyte cells, the release of proteoglycans from
 CC cartilage, the proliferation of inner ear utricular supporting cells or
 CC of T-lymphocytes, the release of a cytokine from peripheral blood
 CC monocytes (PMCs), or the proliferation of endothelial cells. Some of
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
 CC to factor VIIa. The PRO polypeptides can be used in assays to identify
 CC molecules involved in binding interactions. The polynucleotides encoding
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy.
 XX Sequence 229 AA;
 SQ Query Match 99.4%; Score 1253; DB 22; Length 229;
 Best Local Similarity 99.6%; Pred. No. 6.5e-119;
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODDDGYITLTIKIKRKPALVSVPASSFWRMVLLILLICVGVVGVVGLGITSWQRN 60
 DB 1 MODDDGYITLTIKIKRKPALVSVPASSFWRMVLLILLICVGVVGVVGLGITSWQRN 60
 QY 61 YLDENENRIGTTLQOLAKRFQCYVVKOSLKGTFKGHKCSPCDINWRYGDSYGFPRHN 120
 DB 61 YLDENENRIGTTLQOLAKRFQCYVVKOSLKGTFKGHKCSPCDINWRYGDSYGFPRHN 120
 QY 121 LTWEESKQYCTDMNNTLLIKIDNRNIVEYIKARTHLIRWVGLSRQKSNLWKMEDGSVISE 180
 DB 121 LTWEESKQYCTDMNNTLLIKIDNRNIVEYIKARTHLIRWVGLSRQKSNLWKMEDGSVISE 180
 QY 181 NMPEFLBDGKGNMCAVFNHNGKMEPTFCENKHYILMCEKAKMTVDQLP 229
 DB 181 NMPEFLBDGKGNMCAVFNHNGKMEPTFCENKHYILMCEKAKMTVDQLP 229

RESULT 4
 AAB65288
 ID AAB65288 standard; Protein; 229 AA.
 AC AAB65288;
 DT 02-APR-2001 (first entry)
 DE Human PRO1384 (UNQ721) protein sequence SEQ ID NO:424.
 KW Human; secreted and transmembrane protein; PRO; cytosolic;
 cell death; cancer; chromosomal mapping; gene mapping; tissue typing;

diagnostic assay.

Homo sapiens.

W0200073454-A1.

07-DEC-2000.

30-MAR-2000; 2000WO-US08439.

02-JUN-1999; 99WO-US12252.

23-JUN-1999; 99US-0141037.

07-JUL-1999; 99US-0143048.

20-JUL-1999; 99US-0144758.

26-JUL-1999; 99US-0145698.

28-JUL-1999; 99US-0146222.

17-AUG-1999; 99US-0149396.

15-SEP-1999; 99WO-US21090.

08-OCT-1999; 99US-0158663.

30-NOV-1999; 99WO-US28313.

01-DEC-1999; 99WO-US28301.

16-DEC-1999; 99WO-US30095.

20-DEC-1999; 99WO-US30911.

05-JAN-2000; 2000WO-US00219.

06-JAN-2000; 2000WO-US00376.

11-FEB-2000; 2000WO-US03565.

18-FEB-2000; 2000WO-US04341.

22-FEB-2000; 2000WO-US04914.

24-FEB-2000; 2000WO-US04914.

02-MAR-2000; 2000WO-US05004.

15-MAR-2000; 2000WO-US05841.

20-MAR-2000; 2000WO-US06884.

20-MAR-2000; 2000WO-US07377.

(GETH) GENENTECH INC.

Ashtenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S, Gerber H, Gertsen ME, Goddard A, Godowski PJ, Grimaudi CJ, Gurney AL, Kljavin IT, Napier MA, Pan J, Paoni NF, Roy MA, Stewart RA, Tumas D, Watanabe CK, Williams FM, Wood WI, Zhang Z;

WPI; 2001-032160/04.

N-PSDB; AAF44257.

PRO polynucleotides used to produce polypeptides used to target bioactive molecules such as toxins, radiolabels or antibodies, to specific cells, to cause targeted cell death -

Claim 12; Fig 306; 935gp; English.

The present invention describes human secreted and transmembrane PRO proteins. The PRO proteins have cytostatic activity. The PRO proteins can be used for targeted delivery of bioactive molecules, such as toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide sequences, and their fragments, can be used as hybridisation probes, in chromosomal and gene mapping, and in the generation of anti-sense RNA and DNA. They may also be used to produce transgenic animals which are used to develop and screen therapeutically useful reagents. The PRO nucleotide and protein sequence can be used for tissue typing and in treating cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to AAF44470 represent PCR primers and hybridisation probes used in the isolation of human PRO sequences. AAF44087 to AAF44269 and AAF65154 to AAF65300 represent human PRO polynucleotide and protein sequences given in the exemplification of the present invention.

Sequence 229 AA;

Query Match 99.4%; Score 1253; DB 22; Length 229;
Best Local Similarity 99.6%; Pred. No. 6.5e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 M0DEDDGYITENIKTRKPAIVSGPASSFWRRVVALITLITICVMVGLVAGTISVYQKN 60
D0 1 M0SDGTYITINIKTRKPAIVSGPASSFWRRVVALITLITICVMVGLVAGTISVYQKN 60
QY 61 YL0DENENRRTGTLOQLAKRFQYVVKQSEIKGTFKGRKSPCDTNNRYSDSCYGFPRN 120
D0 61 YL0DENENRRTGTLOQLAKRFQYVVKQSEIKGTFKGRKSPCDTNNRYSDSCYGFPRN 120
QY 121 LTWBSKQYCTDMNATLTKIDNINVEYIKARHLIRWGLSRQKSNEVWKMEDGSVISE 180
D0 121 LTWBSKQYCTDMNATLTKIDNINVEYIKARHLIRWGLSRQKSNEVWKMEDGSVISE 180
QY 181 NMFEPLEDGKNMCAEFHNGKMHPTPCENKHYIMCRKAGMTKV0LP 229
D0 181 NMFEPLEDGKNMCAEFHNGKMHPTPCENKHYIMCRKAGMTKV0LP 229

RESULT 5
AB066830
ID AB066830 standard; Protein; 229 AA.
XX AC AB066830;
XX DT 23-MAY-2003 (first entry)
XX DE Human PRO polypeptide #261.
XX KM Human; PRO polypeptide; secreted and transmembrane protein;
KM tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;
KM differentiation; chondrocyte; tumour; genetic disorder;
XX KM cytosolatic.
OS Homo sapiens.
XX EN US2003036180-A1.
XX PD 20-FEB-2003.
XX PF 09-MAY-2002; 2002US-0143114.
XX 31-MAR-1997; 97WO-US05230.
PR 12-JUN-1998; 98WO-US12456.
PR 14-JUL-1998; 98WO-US14552.
PR 28-AUG-1998; 98WO-US17988.
PR 10-SEP-1998; 98WO-US18824.
PR 14-SEP-1998; 98WO-US19093.
PR 14-SEP-1998; 98WO-US19094.
PR 16-SEP-1998; 98WO-US19177.
PR 16-SEP-1998; 98WO-US19330.
PR 17-SEP-1998; 98WO-US19437.
PR 07-OCT-1998; 98WO-US21141.
PR 29-OCT-1998; 98WO-US22991.
PR 29-OCT-1998; 98WO-US22992.
PR 20-NOV-1998; 98WO-US24855.
PR 01-DEC-1998; 98WO-US25108.
PR 05-JAN-1999; 99WO-US00106.
PR 08-MAR-1999; 99WO-US05028.
PR 10-MAR-1999; 99WO-US05190.
PR 20-APR-1999; 99WO-US08615.
PR 14-MAY-1999; 99WO-US10733.
PR 02-JUN-1999; 99WO-US12252.
PR 01-SEP-1999; 99WO-US20111.
PR 08-SEP-1999; 99WO-US20544.
PR 13-SEP-1999; 99WO-US20944.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 05-OCT-1999; 99WO-US23089.
PR 29-NOV-1999; 99WO-US28214.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US28409.
PR 01-DEC-1999; 99WO-US28301.
PR 01-DEC-1999; 99WO-US28634.
PR 02-DEC-1999; 99WO-US28551.

PR 02-DEC-1999; 99WO-US28554.
 PR 02-DEC-1999; 99WO-US28555.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 20-DEC-1999; 99WO-US30999.
 PR 22-DEC-1999; 99WO-US30720.
 PR 30-DEC-1999; 99WO-US31243.
 PR 30-DEC-1999; 99WO-US31274.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05746.
 PR 10-MAR-2000; 2000WO-US05844.
 PR 10-MAR-2000; 2000WO-US06311.
 PR 15-MAR-2000; 2000WO-US06884.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 28-JUN-2000; 2000WO-US20710.
 PR 11-AUG-2000; 2000WO-US22031.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23326.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US06665.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 22-JUN-2001; 2001WO-US20116.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 20-DEC-2000; 2000US-0747259.
 PR 28-FEB-2001; 2001US-0736498.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0808689.
 PR 22-MAR-2001; 2001US-0816744.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0854208.
 PR 10-MAY-2001; 2001US-0854280.
 PR 18-MAY-2001; 2001US-0860216.
 PR 25-MAY-2001; 2001US-0866028.
 PR 25-MAY-2001; 2001US-0866034.
 PR 01-JUN-2001; 2001US-0872035.
 PR 05-JUN-2001; 2001US-0874503.
 PR 14-JUN-2001; 2001US-0882636.
 PR 19-JUN-2001; 2001US-0886342.
 PR 21-JUN-2001; 2001US-0887879.
 PR 18-JUL-2001; 2001US-0908827.
 PR 06-AUG-2001; 2001US-0924419.
 PR 09-AUG-2001; 2001US-0927796.
 PR 16-AUG-2001; 2001US-0931836.
 PR 19-DEC-2001; 2001US-0028072.
 XX
 XX (GETH) GENENTECH INC.
 XX
 XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W,
 PI Gerlitsen ME, Goddard A, Godowski RJ, Gunney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WT, Zhang Z,
 XX

DR MPI: 2003-332040/31.
 DR N-PSDB; ACA03863.
 XX
 PT New secreted and transmembrane PRO nucleic acids, useful for gene
 PT therapy, in chromosome and gene mapping, as chromosome markers, in
 PT tissue typing, and in chromosome identification -
 XX
 PS Claim 12; Fig 522; 660pp; English.
 XX
 CC The present invention relates to the isolation of novel human PRO
 CC polypeptides, and the polynucleotide sequences encoding them. The
 CC PRO polypeptides are secreted and transmembrane proteins. The PRO
 CC polypeptides are useful for detecting other PRO polypeptides, for
 CC linking bioactive molecules to cells expressing PRO polypeptides,
 CC for modulating biological activities of cells expressing PRO
 CC polypeptides, and for identifying agonists or antagonists.
 CC The PRO polypeptides are useful for stimulating the release of
 CC tumour necrosis factor (TNF)-alpha from human blood, for stimulating
 CC the proliferation or differentiation of chondrocytes, and detecting the
 CC presence of tumours. The polynucleotide sequences encoding PRO
 CC polypeptides are useful as hybridisation probes, in chromosome and
 CC gene mapping, in the generation of antisense RNA and DNA, in the
 CC preparation of PRO polypeptides, for generating transgenic animals or
 CC knockout animals, for the genetic analysis of individuals with genetic
 CC disorders, and in gene therapy. ABU6570-ABU6684 represent the human
 CC PRO polypeptides of the invention.
 CC Note: The sequence data for this patent was obtained in electronic
 CC format directly from the USPTO web site at
 CC seqdata.uspto.gov/psipds/identity.html.
 XX
 SQ Sequence 229 AA;
 Query Match 99.4%; Score 1253; DB 24; Length 229;
 Best Local Similarity 99.4%; Pred. No. 6.5e-119;
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MODEGGYITINIKTKRKAIVSGPSSFWRVALLILICVGMVGLAIGVSNQRN 60
 Db 1 MDEDDYITINIKTKRKAIVSGPSSFWRVALLILICVGMVGLAIGVSNQRN 60
 QY 61 YLQDENNRKGTLOQLAKRCQYVVKSELKGTGKHKSPCDTNWYVGGSCGFFRN 120
 Db 61 YLQDENNRKGTLOQLAKRCQYVVKSELKGTGKHKSPCDTNWYVGGSCGFFRN 120
 QY 121 LTWESKQYCTDMNATLTKEDNRIVYIYARCTLIIRWGLSPKSNBWMZEDGSYIS 180
 Db 121 LTWESKQYCTDMNATLTKEDNRIVYIYARCTLIIRWGLSPKSNBWMZEDGSYIS 180
 QY 181 NMFEFLDGGKNNMCAYFHNGKAPTCENKHVLMCEKKAQTVDDLP 229
 Db 181 NMFEFLDGGKNNMCAYFHNGKAPTCENKHVLMCEKKAQTVDDLP 229
 RESULT 6
 ABU67106 standard; Protein, 229 AA.
 ID ABU67106
 AC ABU67106;
 XX
 DT 27-MAY-2003 (first entry)
 XX
 DE Human secreted/transmembrane, PRO, protein SEQ ID 522.
 XX
 XX Human; secreted protein; transmembrane protein; PRO;
 XX inflammatory disease; organ failure; atherosclerosis; cardiac injury;
 XX infertility; birth defects; premature aging; AIDS; biosensor;
 XX acquired immunodeficiency syndrome; cancer; diabetic complication;
 XX bioreactor; tumour.
 XX
 XX Homo sapiens.
 OS
 XX US20030302155-A1.
 XX

PD 13-FEB-2003.
XX 03-MAY-2002; 2002US-0137865.
XX
PR 31-MAR-1997; 97WO-US05230.
PR 12-JUN-1998; 98WO-US12456.
PR 14-JUL-1998; 98WO-US14552.
PR 28-AUG-1998; 98WO-US17888.
PR 10-SEP-1998; 98WO-US18824.
PR 14-SEP-1998; 98WO-US19093.
PR 14-SEP-1998; 98WO-US19094.
PR 16-SEP-1998; 98WO-US19177.
PR 17-SEP-1998; 98WO-US19330.
PR 07-OCT-1998; 98WO-US19437.
PR 29-OCT-1998; 98WO-US21141.
PR 29-OCT-1998; 98WO-US22991.
PR 29-OCT-1998; 98WO-US22992.
PR 20-NOV-1998; 98WO-US24855.
PR 01-DEC-1998; 98WO-US25108.
PR 05-JAN-1999; 99WO-US00106.
PR 08-MAR-1999; 99WO-US05028.
PR 10-MAR-1999; 99WO-US05190.
PR 20-APR-1999; 99WO-US08615.
PR 14-MAY-1999; 99WO-US10733.
PR 02-JUN-1999; 99WO-US12252.
PR 01-SEP-1999; 99WO-US20111.
PR 08-SEP-1999; 99WO-US20594.
PR 13-SEP-1999; 99WO-US20944.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 05-OCT-1999; 99WO-US23089.
PR 29-NOV-1999; 99WO-US28214.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US28405.
PR 01-DEC-1999; 99WO-US28501.
PR 02-DEC-1999; 99WO-US28634.
PR 02-DEC-1999; 99WO-US28551.
PR 02-DEC-1999; 99WO-US28564.
PR 02-DEC-1999; 99WO-US28565.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 20-DEC-1999; 99WO-US30999.
PR 22-DEC-1999; 99WO-US30720.
PR 30-DEC-1999; 99WO-US31243.
PR 30-DEC-1999; 99WO-US31274.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00277.
PR 11-FEB-2000; 2000WO-US00376.
PR 18-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04342.
PR 24-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US04914.
PR 01-MAR-2000; 2000WO-US05004.
PR 02-MAR-2000; 2000WO-US05601.
PR 02-MAR-2000; 2000WO-US05746.
PR 10-MAR-2000; 2000WO-US05841.
PR 15-MAR-2000; 2000WO-US05884.
PR 20-MAR-2000; 2000WO-US07377.
PR 21-MAR-2000; 2000WO-US07332.
PR 30-MAR-2000; 2000WO-US08439.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 28-JUL-2000; 2000WO-US20710.
PR 11-AUG-2000; 2000WO-US22031.
PR 23-AUG-2000; 2000WO-US23522.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 10-NOV-2000; 2000WO-US30873.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.
PR 28-FEB-2001; 2001WO-US06520.
PR 01-MAR-2001; 2001WO-US06666.
PR 25-MAY-2001; 2001WO-US17092.
PR 01-JUN-2001; 2001WO-US17800.
PR 20-JUN-2001; 2001WO-US19692.
PR 22-JUN-2001; 2001WO-US20116.
PR 29-JUN-2001; 2001WO-US21066.
PR 09-JUL-2001; 2001WO-US21735.
PR 20-DEC-2000; 2000US-0747259.
PR 28-FEB-2001; 2001US-076498.
PR 09-MAR-2001; 2001US-0802706.
PR 14-MAR-2001; 2001US-0808689.
PR 22-MAR-2001; 2001US-0816744.
PR 03-APR-2001; 2001US-0828368.
PR 10-MAY-2001; 2001US-0854208.
PR 10-MAY-2001; 2001US-0854280.
PR 18-MAY-2001; 2001US-0860216.
PR 25-MAY-2001; 2001US-0866028.
PR 25-MAY-2001; 2001US-0866034.
PR 01-JUN-2001; 2001US-0872035.
PR 05-JUN-2001; 2001US-0874503.
PR 14-JUN-2001; 2001US-0882636.
PR 19-JUN-2001; 2001US-0886342.
PR 21-JUN-2001; 2001US-0887879.
PR 18-JUL-2001; 2001US-0908827.
PR 06-AUG-2001; 2001US-0924419.
PR 09-AUG-2001; 2001US-0927796.
PR 16-AUG-2001; 2001US-0931836.
PR 19-DEC-2001; 2001US-0028072.
XX
PA (GETH) GENENTECH INC.
XX
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W,
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AV, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2003-331925/31.
DR N-PSDB; ACR04284.
XX
XX New secreted and transmembrane nucleic acids and polypeptides,
PT designated as PRO, useful for treating inflammation, organ failure,
PT atherosclerosis, cardiac injury, infertility, birth defects, premature
aging, AIDS, or cancer -
XX
XX Claim 12; Fig 522; 659pp; English.
XX
XX The invention relates to an isolated nucleic acid comprising, or which is
CC at least 80% identical to, or the full-length coding sequence of, any of
CC the 275 nucleotide sequences, encoding the corresponding PRO polypeptide
CC (one of 275 secreted or transmembrane proteins). The nucleic acid
CC further comprises the full-length coding sequence of the DNA deposited
CC under American Type Culture Collection (ATCC) accession number in a list
CC given in the specification. Also included are vectors and host
CC cells for producing PRO proteins, PRO fusion proteins, anti-PRO
CC antibodies, PRO extracellular domains and mature sequences, methods
CC of detecting PRO proteins, methods for stimulating the release of
CC TNF-alpha (tumour necrosis factor alpha) from human blood,
CC (and the proliferation of differentiation of chondrocyte cells, the
CC proliferation of, or gene expression in pericyte cells, the release or
CC proteoglycans from cartilage, proliferation of inner ear utricular
CC supporting cells, the proliferation of T-lymphocyte cells, the release
CC of a cytokine from peripheral blood mononuclear cells (PBMC), or the
CC proliferation of endothelial cells), a method for modulating the uptake
CC of glucose or free fatty acid (FFA) by skeletal muscle cells,
CC a method for inhibiting the binding of A-peptide to factor VIIA,
CC or the differentiation of adipocyte cells, a method for detecting the
CC presence of a tumour in a mammal and an oligonucleotide probe derived
CC from any of the nucleotide sequences cited above. The nucleic acids and
CC polypeptides are useful for treating inflammatory diseases, organ
CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
CC premature aging, AIDS (acquired immunodeficiency syndrome), cancer, or
CC diabetic complications. The nucleic acids are useful as hybridisation

CC probes, in chromosome and gene mapping, and in generating antisense RNA
CC or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,
CC biosensors or bioreactors. Both are useful in tissue typing.
CC The present sequence represents a PRO protein of the invention.

XX Sequence 229 AA;

Query Match 99.4%; Score 1253; DB 24; Length 229;
Best Local Similarity 99.6%; Pred. No. 6,5e-119;
Matches 229; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODDEGTTNITRKPALVSGPSSFWRWALITLICYGVVGLVALGWSVORN 60
DB 1 MODDEGTTNITRKPALVSGPSSFWRWALITLICYGVVGLVALGWSVORN 60
QY 61 YLDENENRTGTLQQLAKRFGQYVVKQSELKGFTHKSCPCDTNMYGDSYGFPRN 120
DB 61 YLDENENRTGTLQQLAKRFGQYVVKQSELKGFTHKSCPCDTNMYGDSYGFPRN 120
QY 121 LTWESKQYCTDMNATLTKIDNRIYVYIARHTLITWGLSRKSNVWKWEDGVISE 180
DB 121 LTWESKQYCTDMNATLTKIDNRIYVYIARHTLITWGLSRKSNVWKWEDGVISE 180
QY 181 NMPEFLDGGKNNMCAYFHNGKMPFCENKHYIMCERKAKMTKVDLP 229
DB 181 NMPEFLDGGKNNMCAYFHNGKMPFCENKHYIMCERKAKMTKVDLP 229

RESULT 7

ABUS9911
ID ABUS9911 standard; Protein, 229 AA.

AC ABUS9911;

DT 13-MAY-2003 (first entry)

DE Novel secreted and transmembrane protein PRO1384.

XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
KW cardiac insufficiency disorder; cancer; tumor; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disease;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis.

XX Homo sapiens.

PN US2003017563-A1.

PD 23-JAN-2003.

PF 07-MAY-2002; 2002US-0140608.

XX 31-MAR-1997; 97WO-US06230.
PR 12-JUN-1998; 98WO-US12456.
PR 14-JUL-1998; 98WO-US14552.
PR 28-AUG-1998; 98WO-US17888.
PR 10-SEP-1998; 98WO-US18824.
PR 14-SEP-1998; 98WO-US19093.
PR 14-SEP-1998; 98WO-US19094.
PR 14-SEP-1998; 98WO-US19177.
PR 16-SEP-1998; 98WO-US19330.
PR 17-SEP-1998; 98WO-US19437.
PR 07-OCT-1998; 98WO-US21141.
PR 29-OCT-1998; 98WO-US22991.
PR 29-OCT-1998; 98WO-US22992.
PR 20-NOV-1998; 98WO-US24855.
PR 01-DEC-1998; 98WO-US25108.
PR 05-JAN-1999; 99WO-US00106.

PR 08-MAR-1999; 99WO-US05028.
PR 10-MAR-1999; 99WO-US05190.
PR 20-APR-1999; 99WO-US08615.
PR 14-MAY-1999; 99WO-US10733.
PR 02-JUN-1999; 99WO-US12252.
PR 01-SEP-1999; 99WO-US20111.
PR 08-SEP-1999; 99WO-US20594.
PR 13-SEP-1999; 99WO-US20944.
PR 15-SEP-1999; 99WO-US21050.
PR 15-SEP-1999; 99WO-US21547.
PR 05-OCT-1999; 99WO-US23089.
PR 29-NOV-1999; 99WO-US28214.
PR 30-NOV-1999; 99WO-US28313.
PR 30-NOV-1999; 99WO-US28409.
PR 01-DEC-1999; 99WO-US28901.
PR 01-DEC-1999; 99WO-US28934.
PR 02-DEC-1999; 99WO-US28951.
PR 02-DEC-1999; 99WO-US28954.
PR 02-DEC-1999; 99WO-US28955.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 20-DEC-1999; 99WO-US30929.
PR 22-DEC-1999; 99WO-US30720.
PR 30-DEC-1999; 99WO-US31243.
PR 30-DEC-1999; 99WO-US31274.
PR 05-JAN-2000; 2000WO-US00219.
PR 05-JAN-2000; 2000WO-US00277.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04342.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US04914.
PR 24-FEB-2000; 2000WO-US05004.
PR 01-MAR-2000; 2000WO-US05601.
PR 02-MAR-2000; 2000WO-US05746.
PR 10-MAR-2000; 2000WO-US05841.
PR 15-MAR-2000; 2000WO-US06319.
PR 20-MAR-2000; 2000WO-US06884.
PR 20-MAR-2000; 2000WO-US07377.
PR 21-MAR-2000; 2000WO-US07552.
PR 30-MAR-2000; 2000WO-US08459.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 28-JUL-2000; 2000WO-US20710.
PR 11-AUG-2000; 2000WO-US22021.
PR 23-AUG-2000; 2000WO-US23522.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 10-NOV-2000; 2000WO-US30873.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.
PR 28-FEB-2001; 2001WO-US06520.
PR 01-MAR-2001; 2001WO-US06666.
PR 25-MAY-2001; 2001WO-US17092.
PR 01-JUN-2001; 2001WO-US17800.
PR 20-JUN-2001; 2001WO-US19639.
PR 22-JUN-2001; 2001WO-US20116.
PR 29-JUN-2001; 2001WO-US21066.
PR 09-JUL-2001; 2001WO-US21735.
PR 20-DEC-2000; 2000US-0747259.
PR 28-FEB-2001; 2001US-0796498.
PR 09-MAR-2001; 2001US-0802706.
PR 14-MAR-2001; 2001US-0808689.
PR 22-MAR-2001; 2001US-0816744.
PR 05-APR-2001; 2001US-0828366.
PR 10-MAY-2001; 2001US-0854280.
PR 18-MAY-2001; 2001US-08560216.
PR 25-MAY-2001; 2001US-0866028.
PR 25-MAY-2001; 2001US-0866034.

PR 01-JUN-2001; 2001US-0872035.
PR 05-JUN-2001; 2001US-0874503.
PR 14-JUN-2001; 2001US-0882636.
PR 19-JUN-2001; 2001US-0886342.
PR 21-JUN-2001; 2001US-0887879.
PR 18-JUL-2001; 2001US-0908827.
PR 06-AUG-2001; 2001US-0924419.
PR 09-AUG-2001; 2001US-092796.
PR 16-AUG-2001; 2001US-0931836.
PR 19-DEC-2001; 2001US-0028072.
XX
XX (GETH) GENENTECH INC.
XX
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W,
PI Geritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S,
PI Smith V, Stewart VA, Tumas D, Waterabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2003-148238/14.
DR N-PSDB; ABX89401.
XX
XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
PT are therapeutically useful for enhancing immune response and in cancer
PT treatments -
XX
XX Claim 12; Fig 522; 659pp; English.
XX
XX The invention describes an isolated human PRO polypeptide. The PRO
CC polypeptides are useful in detecting PRO polypeptides in a sample, in
CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
CC in modulating at least one biological activity of a cell expressing a PRO
CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
CC stimulate adrenal cortical capillary endothelial growth and PRO536,
CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
CC useful for treating conditions or disorders where angiogenesis would be
CC beneficial, e.g. wound healing and antagonist of this polypeptide are
CC useful for treating cancerous tumours. PRO812 inhibits vascular
CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
CC cells and is thus useful for inhibiting endothelial cell growth in
CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
CC stimulated T-lymphocytes and are therapeutically useful for enhancing
CC immune response. PRO828, PRO826, PRO1068 or PRO132 enhance survival of
CC retinal neurons cells (PRO132 is also enhances survival/proliferation of
CC rod photoreceptor cells) and therefore are useful for treating retinal
CC disorders of injuries, e.g. retinitis pigmentosum, AMD. PRO819, PRO813
CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,
CC and therefore are useful for treating kidney disorders associated with
CC decreased mesangial cell function such as Berger disease or other
CC nephropathies associated with dermatitis, herpeticiformis or Crohn's
CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
CC proliferation and/or redifferentiation of chondrocytes in culture and
CC are thus useful for treating sports injuries, and arthritis. This
CC is the amino acid sequence of a novel human PRO protein.
XX
XX Sequence 229 AA;
SQ

Query Match 99.4%; Score 1253; DB 24; Length 229;
Best Local Similarity 99.6%; Pred. No. 6.5e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYTLNKTKEKPAIVSGPSSFWWRVMAILLILICGVVAGVAGTNSWMORN 60
DB 1 MODEGGYTLNKTKEKPAIVSGPSSFWWRVMAILLILICGVVAGVAGTNSWMORN 60
QY 61 YLQDENENRTGTLQGLARPCQYVVKQSELKGTFFGKSCPCDTNWRYYGSCYFFPHN 120
DB 61 YLQDENENRTGTLQGLARPCQYVVKQSELKGTFFGKSCPCDTNWRYYGSCYFFPHN 120
QY 121 LTWESKQYCTDMNATLTKIDNNTVEYIKATHLIRWVGLSFRQSNBWKWEDGSVISE 180
DB 121 LTWESKQYCTDMNATLTKIDNNTVEYIKATHLIRWVGLSFRQSNBWKWEDGSVISE 180

DB 121 LTWESKQYCTDMNATLTKIDNNTVEYIKATHLIRWVGLSFRQSNBWKWEDGSVISE 180
QY 181 NMFEFLDGGKNNKCAVFNHGRKHPFCENKHTLMGRKRGKMTKVDLP 229
DB 181 NMFEFLDGGKNNKCAVFNHGRKHPFCENKHTLMGRKRGKMTKVDLP 229

RESULT 8
ID ABUS9181 standard; Protein; 229 AA.
XX
XX AC ABUS9181;
XX
XX DT 28-Apr-2003 (first entry)
XX
XX DE Novel human secreted or transmembrane protein PRO1384.
XX
XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
XX cardiac insufficiency disorder; cancer; tumour; immune response;
XX adrenal cortical capillary endothelial growth; c-fos induction;
XX vascular endothelial growth factor inhibition; VEGF inhibition;
XX endothelial cell growth inhibitor; T-lymphocytes stimulation;
XX retinal neurons cell survival; rod photoreceptor cell survival;
XX retinal disorder; retinitis pigmentosum; kidney disorder;
XX mammalian kidney mesangial cell proliferation; Berger disease;
XX dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
XX chondrocyte redifferentiation; sports injury; arthritis.
XX
XX Homo sapiens.
XX
XX US2002132252-A1.
XX
XX PD 19-SEP-2002.
XX
XX PF 14-NOV-2001; 2001US-0930442.
XX
XX 05-NOV-1997; 97WO-US20069.
XX 16-SEP-1998; 98WO-US19330.
XX 17-SEP-1998; 98WO-US19437.
XX 07-OCT-1998; 98WO-US21141.
XX 01-DEC-1998; 98WO-US25108.
XX 05-JAN-1999; 99WO-US00106.
XX 08-MAR-1999; 99WO-US05028.
XX 02-JUN-1999; 99WO-US12252.
XX 15-SEP-1999; 99WO-US10390.
XX 15-SEP-1999; 99WO-US21547.
XX 30-NOV-1999; 99WO-US28313.
XX 01-DEC-1999; 99WO-US28301.
XX 01-DEC-1999; 99WO-US28634.
XX 16-DEC-1999; 99WO-US30095.
XX 20-DEC-1999; 99WO-US30911.
XX 06-JAN-2000; 2000WO-US00219.
XX 06-JAN-2000; 2000WO-US00376.
XX 11-FEB-2000; 2000WO-US03565.
XX 18-FEB-2000; 2000WO-US04341.
XX 22-FEB-2000; 2000WO-US04414.
XX 24-FEB-2000; 2000WO-US04914.
XX 24-FEB-2000; 2000WO-US05004.
XX 02-MAR-2000; 2000WO-US05841.
XX 10-MAR-2000; 2000WO-US06319.
XX 15-MAR-2000; 2000WO-US06884.
XX 20-MAR-2000; 2000WO-US07377.
XX 30-MAR-2000; 2000WO-US08439.
XX 15-MAY-2000; 2000WO-US13358.
XX 17-MAY-2000; 2000WO-US13705.
XX 22-MAY-2000; 2000WO-US14042.
XX 30-MAY-2000; 2000WO-US14941.
XX 02-JUN-2000; 2000WO-US15264.
XX 28-JUL-2000; 2000WO-US20710.
XX 11-AUG-2000; 2000WO-US20203.
XX 23-AUG-2000; 2000WO-US23522.
XX 24-AUG-2000; 2000WO-US23328.
XX 08-NOV-2000; 2000WO-US30952.

PR 01-DEC-2000; 2000WC-US32578.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 16-JUN-1997; 97US-049787P.
 PR 17-OCT-1997; 97US-062250P.
 PR 12-NOV-1997; 97US-065186P.
 PR 13-NOV-1997; 97US-065311P.
 PR 24-NOV-1997; 97US-067701P.
 PR 25-FEB-1998; 98US-075945P.
 PR 20-MAR-1998; 98US-078910P.
 PR 28-APR-1998; 98US-083322P.
 PR 07-MAY-1998; 98US-084600P.
 PR 28-MAY-1998; 98US-087106P.
 PR 02-JUN-1998; 98US-087607P.
 PR 02-JUN-1998; 98US-087609P.
 PR 02-JUN-1998; 98US-087759P.
 PR 03-JUN-1998; 98US-087827P.
 PR 04-JUN-1998; 98US-088021P.
 PR 04-JUN-1998; 98US-088025P.
 PR 04-JUN-1998; 98US-088026P.
 PR 04-JUN-1998; 98US-088028P.
 PR 04-JUN-1998; 98US-088029P.
 PR 04-JUN-1998; 98US-088033P.
 PR 04-JUN-1998; 98US-088035P.
 PR 05-JUN-1998; 98US-088167P.
 PR 05-JUN-1998; 98US-088202P.
 PR 05-JUN-1998; 98US-088212P.
 PR 05-JUN-1998; 98US-088217P.
 PR 09-JUN-1998; 98US-088655P.
 PR 10-JUN-1998; 98US-088734P.
 PR 10-JUN-1998; 98US-088738P.
 PR 10-JUN-1998; 98US-088742P.
 PR 10-JUN-1998; 98US-088810P.
 PR 10-JUN-1998; 98US-088824P.
 PR 10-JUN-1998; 98US-088826P.
 PR 11-JUN-1998; 98US-088858P.
 PR 11-JUN-1998; 98US-088861P.
 PR 11-JUN-1998; 98US-088876P.
 PR 12-JUN-1998; 98US-089105P.
 PR 16-JUN-1998; 98US-089440P.
 PR 16-JUN-1998; 98US-089512P.
 PR 16-JUN-1998; 98US-089514P.
 PR 17-JUN-1998; 98US-089512P.
 PR 17-JUN-1998; 98US-089538P.
 PR 17-JUN-1998; 98US-089598P.
 PR 17-JUN-1998; 98US-089599P.
 PR 17-JUN-1998; 98US-089600P.
 PR 17-JUN-1998; 98US-089653P.
 PR 18-JUN-1998; 98US-089601P.
 PR 18-JUN-1998; 98US-089607P.
 PR 18-JUN-1998; 98US-089608P.
 PR 28-AUG-2001; 2001US-0941992.
 XX
 PA (GETH) GENENTECH INC.
 XX
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ,
 PI Grimaldi JC, Gunney AL, Kijavitt IJ, Napier MA, Pan J, Paoni NF,
 PI Roy VA, Stewart TA, Tumas D, Watanabe CX, Williams PM, Wood NJ,
 PI Zhang Z;
 XX
 XX WPI; 2003-247083/24.
 DR N-PSDB; ABX80393.
 XX
 PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
 PT are therapeutically useful for enhancing immune response and in cancer
 PT treatments -
 XX

ES Claim 12; Fig 306; 648pp; English.
 XX
 CC The invention describes an isolated human PRO polypeptide. The PRO
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
 CC in modulating at least one biological activity of a cell expressing a PRO
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
 CC useful for treating cardiac insufficiency disorder. PRO1154 and PRO1186
 CC stimulate adrenal capillary endothelial growth, and PRO536,
 CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, and PRO126,
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
 CC useful for treating conditions or disorders where angiogenesis would be
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are
 CC useful for treating cancerous tumours. PRO812 inhibits vascular
 CC endothelial growth factor (VEGF) stimulated endothelial cell growth in
 CC cells and is thus useful for inhibiting tumour growth. PRO826,
 CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing
 CC immune response. PRO828, PRO1068 or PRO1132 enhance survival of
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
 CC rod photoreceptor cells) and therefore are useful for treating retinal
 CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813
 CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,
 CC and therefore are useful for treating kidney disorders associated with
 CC decreased mesangial cell function such as Berger disease or other
 CC nephropathies associated with dermatitis, herpeticiformis or Crohn's
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
 CC proliferation and/or redifferentiation of chondrocytes in culture and
 CC are thus useful for treating sports injuries and arthritis. This
 CC is the amino acid sequence of a novel human PRO protein.
 XX
 SQ Sequence 229 AA;
 Query Match 99.4%; Score 1253; DB 24; Length 229;
 Best Local Similarity 99.6%; Pred. No. 6, 5e-119;
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MODEDGYITLNTIKTRPALVSVGPASSFWRRVVALILLICVGVVGLVGLVSWVQNRN 60
 DB 1 MODEDGYITLNTIKTRPALVSVGPASSFWRRVVALILLICVGVVGLVGLVSWVQNRN 60
 QY 61 YLQDENENRIGTLQOLAKRQCQYVVKQSELKGTFFKGHKQSPCDJNNRYVSDCYGFFRHN 120
 DB 61 YLQDENENRIGTLQOLAKRQCQYVVKQSELKGTFFKGHKQSPCDJNNRYVSDCYGFFRHN 120
 QY 121 LTVBESKQYCTDNATILKIDNRNIVELYIARTHLIRWGLSOKSVEWVKWBDGVSYS 180
 DB 121 LTVBESKQYCTDNATILKIDNRNIVELYIARTHLIRWGLSOKSVEWVKWBDGVSYS 180
 QY 181 NMFEFLDQKGNKNCAYFHHGKMHPTFCENKHYLMCRKAKMTKVDLP 229
 DB 181 NMFEFLDQKGNKNCAYFHHGKMHPTFCENKHYLMCRKAKMTKVDLP 229
 RESULT 9
 ABUS9328
 ID ABUS9328 standard; Protein; 229 AA.
 XX
 XX ABUS9328;
 AC
 XX 22-APR-2003 (first entry)
 DT
 XX Human secreted/transmembrane protein, #171.
 DE
 XX Human; PRO; secreted; transmembrane; pharmaceutical;
 KW diagnostic; biosensor; bioindicator; tumour; therapeutic;
 KW gene therapy; tumour-associated antigenic target; TAT; ADEPT;
 KW antibody-dependent enzyme mediated prodrug therapy; cytostatic.
 OS Homo sapiens.
 XX
 XX US2003027162-A1.
 ZN

XX 06-FEB-2003.
PD
XX 15-NOV-2001; 2001US-0997428.
PF
XX
PR 05-NOV-1997; 97WO-US20069;
PR 16-SEP-1998; 98WO-US19330;
PR 17-SEP-1998; 98WO-US19437;
PR 07-OCT-1998; 98WO-US21141;
PR 01-DEC-1998; 98WO-US25108;
PR 05-JAN-1999; 99WO-US00106;
PR 08-MAR-1999; 99WO-US05028;
PR 02-JUN-1999; 99WO-US12252;
PR 15-SEP-1999; 99WO-US21090;
PR 15-SEP-1999; 99WO-US21547;
PR 30-NOV-1999; 99WO-US26313;
PR 01-DEC-1999; 99WO-US26301;
PR 01-DEC-1999; 99WO-US26634;
PR 16-DEC-1999; 99WO-US30095;
PR 20-DEC-1999; 99WO-US30911;
PR 05-JAN-2000; 2000WO-US00219;
PR 06-JAN-2000; 2000WO-US00376;
PR 11-FEB-2000; 2000WO-US03565;
PR 18-FEB-2000; 2000WO-US04341;
PR 22-FEB-2000; 2000WO-US04414;
PR 24-FEB-2000; 2000WO-US04914;
PR 24-FEB-2000; 2000WO-US05004;
PR 02-MAR-2000; 2000WO-US05841;
PR 10-MAR-2000; 2000WO-US06319;
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Best Local Similarity 99.6%; Pred. No. 6,5e-119;
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QY 1 LQDENENRTGTLQQLAKRFQYVVKOSLKTQFPGHKOSPCDTNWRYYGSCYGFRRN 120
DB 61 YIQDENENRTGTLQQLAKRFQYVVKOSLKTQFPGHKOSPCDTNWRYYGSCYGFRRN 120
QY 121 LTWESKOYCTDMANATLKIDKNNTVEYIKATHTLIRVGLSRKSNVWKKEDSVTSE 180
DB 121 LTWESKOYCTDMANATLKIDKNNTVEYIKATHTLIRVGLSRKSNVWKKEDSVTSE 180
QY 181 NMFEELEBQKNNKNCAYFENGKMHPTPCENKAYLNCERKAGKATYDOLP 229
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XX ABUS9477;
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XX 22-APR-2003 (first entry)
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XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
XX cardiac insufficiency disorder; cancer; tumour; immune response;
XX adrenal cortical capillary endothelial growth; c-fos induction;

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KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpetic stomatitis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis.
XX
XX Homo sapiens.
XX
XX US2003027985-A1.
XX
XX 06-FEB-2003.
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XX 14-NOV-2001; 2001US-0990562.
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Db 121 LTWESKQYCTDMNATLTKIDNRYEYIKARTGLIHWGVSROKSNVWMEDEGSYISE 180
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RESULT 11
ID ABU60612 standard; Protein; 229 AA.
XX ABU60612;
XX AC ABU60612;
XX DT 01-MAY-2003 (First entry)
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 KW pharmaceutical; diagnostic; therapeutic; gene therapy.
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 OS Homo sapiens.
 PN US2002160384-A1.
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 PD 31-OCT-2002.
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 PF 14-NOV-2001; 2001US-0992598.
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 XX 05-NOV-1997; 97WO-US20069.
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 PR 11-JUN-1998; 98US-088861P.
 PR 11-JUN-1998; 98US-088876P.
 PR 12-JUN-1998; 98US-089105P.
 PR 16-JUN-1998; 98US-089440P.
 PR 16-JUN-1998; 98US-089512P.
 PR 16-JUN-1998; 98US-089514P.
 PR 17-JUN-1998; 98US-089532P.
 PR 17-JUN-1998; 98US-089538P.
 PR 17-JUN-1998; 98US-089598P.
 PR 17-JUN-1998; 98US-089600P.
 PR 17-JUN-1998; 98US-089653P.
 PR 18-JUN-1998; 98US-089801P.
 PR 18-JUN-1998; 98US-089907P.
 PR 18-JUN-1998; 98US-089908P.
 PR 28-AUG-2001; 2001US-0941592.

(GENT) GENENTECH INC.
 PA
 XX
 PI Ahkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Goddard PJ,
 PI Gimaldi JC, Gurney AL, Kijavini IU, Napier MA, Pan Y, Paoni NF,
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,
 PI Zhang Z;
 XX
 DR WPI: 2003-288106/28.
 DR N-PSDB; ABX90371.
 PT New transmembrane polypeptides and nucleic acids encoding the
 PT polypeptides, useful in gene therapy, in chromosome identification, as
 PT chromosome markers, or in generating probes -
 XX
 PS Claim 12; Fig 306; 650pp; English.

The invention discloses isolated PRO secreted/transmembrane polypeptides comprising a sequence without signal peptide and the nucleic acid encoding them. The polypeptides can be used to raise antibodies that specifically bind to the PRO polypeptide, for linking a bioactive molecule to a cell expressing a PRO protein and for modulating at least one biological activity of a cell. The PRO polypeptides or polynucleotides are also useful in gene therapy, in chromosome identification, as chromosome markers, or in generating probes. The PRO polypeptides are useful as molecular markers for protein electrophoresis, and the isolated nucleic acids may be used for recombinantly expressing those markers. The PRO polypeptides and nucleic acids may also be used in tissue typing. Anti-PRO antibodies are useful in diagnostic assays for PRO, and in affinity purification of PRO from recombinant cell culture or natural sources. The sequences presented in AB060478-AB060624 are the PRO polynucleotides of the invention.
 Note: The sequence data for this patent is also available in electronic format from USPTO at seqdata.uspto.gov/sequence.html.

Sequence 229 AA;
 Query Match 99.4%; Score 1253; DB 24; Length 229;
 Best Local Similarity 99.6%; Pred. NO. 6.5e-119;

Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGYITLNTIKTRPALVSVGPASSFWRRVALLLLILCYGNTVGLVAGIWSMOMN 60
Db 1 MODEGYITLNTIKTRPALVSVGPASSFWRRVALLLLILCYGNTVGLVAGIWSMOMN 60
QY 61 YQDENENRGTGQOLAKRFGCVVVKOSLKGTFKFKHKSPPGDTNRYYGDSCTYGFERN 120
Db 61 YQDENENRGTGQOLAKRFGCVVVKOSLKGTFKFKHKSPPGDTNRYYGDSCTYGFERN 120
QY 121 LFWBESKOYCTDMNATLLIKIDNNIVEYIKARTHLIRWGLSRQKSNRYWKMGDSVISE 180
Db 121 LFWBESKOYCTDMNATLLIKIDNNIVEYIKARTHLIRWGLSRQKSNRYWKMGDSVISE 180
QY 181 NMFEPFLDGKANNCAVFNHGNKHPFPCSNKHVILMCEPKAGMTIVDLP 229
Db 181 NMFEPFLDGKANNCAVFNHGNKHPFPCSNKHVILMCEPKAGMTIVDLP 229

RESULT 12
ABU58103
ID ABU58103 standard; Protein; 229 AA.
XX ABU58103;
AC
XX
XX
DT 14-APR-2003 (first entry)
XX
XX
DE Human PRO polypeptide #135.
XX
XX
KW Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
KM antibody-dependent enzyme mediated produg therapy.
XX
XX
OS Homo sapiens.
XX
XX
PN US2003027163-A1.
XX
XX
PD 06-FEB-2003.
XX
XX
PF 15-NOV-2001; 2001US-0997666.
XX
XX
PR 05-NOV-1997; 97WO-US20069.
PR 16-SEP-1998; 98WO-US19330.
PR 17-SEP-1998; 98WO-US19437.
PR 07-OCT-1998; 98WO-US21141.
PR 01-DEC-1998; 98WO-US25108.
PR 05-JAN-1999; 99WO-US05028.
PR 08-MAR-1999; 99WO-US12252.
PR 02-JUN-1999; 99WO-US12252.
PR 15-SEP-1998; 99WO-US21547.
PR 15-SEP-1999; 99WO-US28313.
PR 30-NOV-1999; 99WO-US28301.
PR 01-DEC-1999; 99WO-US28634.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 05-JAN-2000; 2000WO-US00312.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04914.
PR 24-FEB-2000; 2000WO-US05004.
PR 02-FEB-2000; 2000WO-US05841.
PR 10-MAR-2000; 2000WO-US06819.
PR 15-MAR-2000; 2000WO-US06884.
PR 20-MAR-2000; 2000WO-US07377.
PR 30-MAR-2000; 2000WO-US08439.
PR 15-MAY-2000; 2000WO-US13358.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.

PR 28-JUL-2000; 2000WO-US20710.
PR 11-AUG-2000; 2000WO-US22031.
PR 23-AUG-2000; 2000WO-US23522.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 01-DEC-2000; 2000WO-US32678.
PR 28-FEB-2001; 2001WO-US06520.
PR 01-JUN-2001; 2001WO-US17800.
PR 20-JUN-2001; 2001WO-US19692.
PR 29-JUN-2001; 2001WO-US21066.
PR 09-JUL-2001; 2001WO-US21735.
PR 16-JUN-1997; 97US-049787P.
PR 17-OCT-1997; 97US-062250P.
PR 12-NOV-1997; 97US-065186P.
PR 13-NOV-1997; 97US-065311P.
PR 24-NOV-1997; 97US-066770P.
PR 25-FEB-1998; 98US-075945P.
PR 20-MAR-1998; 98US-078910P.
PR 28-APR-1998; 98US-083322P.
PR 07-MAY-1998; 98US-084600P.
PR 28-MAY-1998; 98US-087106P.
PR 02-JUN-1998; 98US-087607P.
PR 02-JUN-1998; 98US-087609P.
PR 02-JUN-1998; 98US-087759P.
PR 03-JUN-1998; 98US-087827P.
PR 04-JUN-1998; 98US-088021P.
PR 04-JUN-1998; 98US-088025P.
PR 04-JUN-1998; 98US-088026P.
PR 04-JUN-1998; 98US-088028P.
PR 04-JUN-1998; 98US-088029P.
PR 04-JUN-1998; 98US-088030P.
PR 04-JUN-1998; 98US-088033P.
PR 04-JUN-1998; 98US-088126P.
PR 05-JUN-1998; 98US-088167P.
PR 05-JUN-1998; 98US-088202P.
PR 05-JUN-1998; 98US-088212P.
PR 05-JUN-1998; 98US-088217P.
PR 09-JUN-1998; 98US-088655P.
PR 10-JUN-1998; 98US-088734P.
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PR 10-JUN-1998; 98US-088742P.
PR 10-JUN-1998; 98US-088810P.
PR 10-JUN-1998; 98US-088824P.
PR 10-JUN-1998; 98US-088826P.
PR 11-JUN-1998; 98US-088858P.
PR 11-JUN-1998; 98US-088861P.
PR 11-JUN-1998; 98US-088875P.
PR 12-JUN-1998; 98US-089105P.
PR 16-JUN-1998; 98US-089140P.
PR 16-JUN-1998; 98US-089512P.
PR 16-JUN-1998; 98US-089514P.
PR 17-JUN-1998; 98US-089533P.
PR 17-JUN-1998; 98US-089538P.
PR 17-JUN-1998; 98US-089598P.
PR 17-JUN-1998; 98US-089599P.
PR 17-JUN-1998; 98US-089600P.
PR 17-JUN-1998; 98US-089653P.
PR 18-JUN-1998; 98US-089601P.
PR 18-JUN-1998; 98US-089907P.
PR 18-JUN-1998; 98US-089947P.
PR 19-JUN-1998; 98US-089948P.
PR 19-JUN-1998; 98US-089952P.
PR 22-JUN-1998; 98US-090246P.
PR 22-JUN-1998; 98US-090252P.
PR 22-JUN-1998; 98US-090254P.
PR 23-JUN-1998; 98US-090349P.
PR 23-JUN-1998; 98US-090355P.
PR 24-JUN-1998; 98US-090429P.
PR 24-JUN-1998; 98US-090431P.
PR 24-JUN-1998; 98US-090435P.
PR 24-JUN-1998; 98US-090444P.
PR 24-JUN-1998; 98US-090445P.

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PR 24-JUN-1998; 98US-090472P.
PR 24-JUN-1998; 98US-090535P.
PR 24-JUN-1998; 98US-090540P.
PR 24-JUN-1998; 98US-090542P.
PR 24-JUN-1998; 98US-090557P.
PR 25-JUN-1998; 98US-090678P.
PR 25-JUN-1998; 98US-090690P.
PR 25-JUN-1998; 98US-090690P.
PR 25-JUN-1998; 98US-090695P.
PR 25-JUN-1998; 98US-090696P.
PR 26-JUN-1998; 98US-090862P.
PR 26-JUN-1998; 98US-090863P.
PR 01-JUL-1998; 98US-091360P.
PR 01-JUL-1998; 98US-091544P.
PR 02-JUL-1998; 98US-091478P.
PR 02-JUL-1998; 98US-091519P.
PR 02-JUL-1998; 98US-091626P.
PR 02-JUL-1998; 98US-091628P.
PR 02-JUL-1998; 98US-091633P.
PR 02-JUL-1998; 98US-091646P.
PR 02-JUL-1998; 98US-091673P.
PR 07-JUL-1998; 98US-091978P.
PR 07-JUL-1998; 98US-091982P.
PR 09-JUL-1998; 98US-092182P.
PR 10-JUL-1998; 98US-092477P.
PR 20-JUL-1998; 98US-093339P.
PR 30-JUL-1998; 98US-094651P.
PR 04-AUG-1998; 98US-095282P.
PR 04-AUG-1998; 98US-095285P.
PR 04-AUG-1998; 98US-095301P.
PR 04-AUG-1998; 98US-095302P.
PR 04-AUG-1998; 98US-095318P.
PR 04-AUG-1998; 98US-095325P.
PR 10-AUG-1998; 98US-095916P.
PR 10-AUG-1998; 98US-095923P.
PR 10-AUG-1998; 98US-096012P.
PR 11-AUG-1998; 98US-096143P.
PR 11-AUG-1998; 98US-096146P.
PR 12-AUG-1998; 98US-096329P.
PR 17-AUG-1998; 98US-096757P.
PR 17-AUG-1998; 98US-096766P.
PR 17-AUG-1998; 98US-096768P.
PR 17-AUG-1998; 98US-096773P.
PR 17-AUG-1998; 98US-096791P.
PR 17-AUG-1998; 98US-096867P.
PR 17-AUG-1998; 98US-096891P.
PR 17-AUG-1998; 98US-096894P.
PR 17-AUG-1998; 98US-096895P.
PR 17-AUG-1998; 98US-096897P.
PR 17-AUG-1998; 98US-096945P.
PR 18-AUG-1998; 98US-096950P.
PR 18-AUG-1998; 98US-096959P.
PR 18-AUG-1998; 98US-096960P.
PR 18-AUG-1998; 98US-097022P.
PR 19-AUG-1998; 98US-097411P.
PR 20-AUG-1998; 98US-097418P.
PR 24-AUG-1998; 98US-097661P.
PR 26-AUG-1998; 98US-097952P.
PR 26-AUG-1998; 98US-097954P.
PR 26-AUG-1998; 98US-097955P.
PR 26-AUG-1998; 98US-097971P.
PR 26-AUG-1998; 98US-097974P.
PR 26-AUG-1998; 98US-097978P.
PR 26-AUG-1998; 98US-097979P.
PR 26-AUG-1998; 98US-097986P.
PR 31-AUG-1998; 98US-098014P.
PR 31-AUG-1998; 98US-098525P.
PR 16-SEP-1998; 98US-100634P.
PR 17-SEP-1998; 98US-100858P.
PR 22-DEC-1998; 98US-113296P.
PR 12-MAR-1999; 99US-123957P.

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PR 23-JUN-1999; 99US-141037P.
PR 07-JUL-1999; 99US-143048P.

Query Match 99.4%; Score 1253; DB 24; Length 225;
Best Local Similarity 99.6%; Pred. No. 6.5e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODDGYITLNTKTEKPAIVSVGPASSFWRMALILLICVGVVGLVAGIVSMORN 60
DB 1 MODDGYITLNTKTEKPAIVSVGPASSFWRMALILLICVGVVGLVAGIVSMORN 60
QY 61 YLDNENRGTGTLQDLARFCQVVKOSELNGTFRGHKOSPCDITWRYGDSYGFRRN 120
DB 61 YLDNENRGTGTLQDLARFCQVVKOSELNGTFRGHKOSPCDITWRYGDSYGFRRN 120
QY 121 LTWESKQYCTDMAATLTKIDRNIVETKATTELRWVGSROKSNETWKNEDGSVISE 180
DB 121 LTWESKQYCTDMAATLTKIDRNIVETKATTELRWVGSROKSNETWKNEDGSVISE 180
QY 181 NMFEFLDGGKMNCAVFNHGKMHPTFCENKXIVIMCERKAGMTKYDQLP 229
DB 181 NMFEFLDGGKMNCAVFNHGKMHPTFCENKXIVIMCERKAGMTKYDQLP 229

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RESULT 13
ABUS9034
ID ABUS9034 standard; Protein; 229 AA.
XX AC ABUS9034;
XX DT 16-APR-2003 (First entry)
DB Human secreted/transmembrane protein, #171.
XX Human; PRO; secreted; transmembrane; signal peptide;
XX pharmaceutical; diagnostic; biosensor; bioreactor; tumour; therapeutic;
XX colon cancer; lung cancer; breast cancer;cancer; gene therapy.
XX Homo sapiens.
XX OS
XX PN US2002142961-A1.
XX PD 03-OCT-2002.
XX PE 19-NOV-2001; 2001US-0989721.
XX PR 05-NOV-1997; 97WO-US20069.
XX PR 17-SEP-1998; 98WO-US19437.
XX PR 07-OCT-1998; 98WO-US21141.
XX PR 01-DEC-1998; 98WO-US25108.
XX PR 05-JAN-1999; 99WO-US00106.
XX PR 08-MAR-1999; 99WO-US05029.
XX PR 02-JUN-1999; 99WO-US21252.
XX PR 15-SEP-1999; 99WO-US21090.
XX PR 15-SEP-1999; 99WO-US21547.
XX PR 30-NOV-1999; 99WO-US28313.
XX PR 01-DEC-1999; 99WO-US28301.
XX PR 01-DEC-1999; 99WO-US28304.
XX PR 16-DEC-1999; 99WO-US30035.
XX PR 20-DEC-1999; 99WO-US30911.
XX PR 05-JAN-2000; 2000WO-US00219.
XX PR 06-JAN-2000; 2000WO-US00376.
XX PR 11-FEB-2000; 2000WO-US03565.
XX PR 18-FEB-2000; 2000WO-US04341.
XX PR 22-FEB-2000; 2000WO-US04341.
XX PR 24-FEB-2000; 2000WO-US04914.
XX PR 24-FEB-2000; 2000WO-US05004.
XX PR 02-MAR-2000; 2000WO-US05841.
XX PR 10-MAR-2000; 2000WO-US06319.
XX PR 15-MAR-2000; 2000WO-US06884.
XX PR 20-MAR-2000; 2000WO-US07377.
XX PR 30-MAR-2000; 2000WO-US08439.
XX PR 15-MAY-2000; 2000WO-US13358.

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PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 11-AUG-2000; 2000WO-US22031.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23528.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19682.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 16-JUN-1997; 97US-0497872.
 PR 17-OCT-1997; 97US-062505P.
 PR 12-NOV-1997; 97US-0651862.
 PR 13-NOV-1997; 97US-0653112.
 PR 24-NOV-1997; 97US-0667702.
 PR 25-FEB-1998; 98US-0759452P.
 PR 20-MAR-1998; 98US-0789102P.
 PR 28-APR-1998; 98US-083322P.
 PR 07-MAY-1998; 98US-0846002P.
 PR 28-MAY-1998; 98US-0871062P.
 PR 02-JUN-1998; 98US-0876072P.
 PR 02-JUN-1998; 98US-0876092P.
 PR 02-JUN-1998; 98US-0877592P.
 PR 03-JUN-1998; 98US-0878272P.
 PR 04-JUN-1998; 98US-0880212P.
 PR 04-JUN-1998; 98US-0880252P.
 PR 04-JUN-1998; 98US-0880262P.
 PR 04-JUN-1998; 98US-0880282P.
 PR 04-JUN-1998; 98US-0880302P.
 PR 04-JUN-1998; 98US-0880332P.
 PR 04-JUN-1998; 98US-0883262P.
 PR 05-JUN-1998; 98US-0881672P.
 PR 05-JUN-1998; 98US-0882022P.
 PR 05-JUN-1998; 98US-0882122P.
 PR 05-JUN-1998; 98US-0882172P.
 PR 09-JUN-1998; 98US-0886552P.
 PR 10-JUN-1998; 98US-0887342P.
 PR 10-JUN-1998; 98US-0887392P.
 PR 10-JUN-1998; 98US-0887422P.
 PR 10-JUN-1998; 98US-0888102P.
 PR 10-JUN-1998; 98US-0888242P.
 PR 10-JUN-1998; 98US-0888262P.
 PR 11-JUN-1998; 98US-0888582P.
 PR 11-JUN-1998; 98US-0888612P.
 PR 11-JUN-1998; 98US-0888762P.
 PR 12-JUN-1998; 98US-0891052P.
 PR 16-JUN-1998; 98US-0894402P.
 PR 16-JUN-1998; 98US-0895122P.
 PR 16-JUN-1998; 98US-0895142P.
 PR 17-JUN-1998; 98US-0895322P.
 PR 17-JUN-1998; 98US-0895382P.
 PR 17-JUN-1998; 98US-0895982P.
 PR 17-JUN-1998; 98US-0895992P.
 PR 17-JUN-1998; 98US-0896002P.
 PR 17-JUN-1998; 98US-0896532P.
 PR 18-JUN-1998; 98US-0898012P.
 PR 18-JUN-1998; 98US-0898072P.
 PR 18-JUN-1998; 98US-0899082P.
 PR 28-AUG-2001; 2001US-0941992.

(GERTH) GENENTECH INC.

XX
 XX
 PI Ashkenazi AJ, Baker KP, Botstein D, Desrochers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gerlitsen NE, Goddard A, Godowski PI;
 PI Grimaldi JC, Gutney AL, Kljavin IU, Napier MA, Pan J, Paoni NF,
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,
 PI Zhang Z;

XX
 DR WPI; 2003-155950/15.
 XX
 PT New secreted and transmembrane PRO polypeptides (e.g. PRO183, PRO184,
 PT PRO301 or PRO346) useful as targets for therapeutic intervention in
 PT cancers (e.g. lung or breast cancers), or for diagnosing these cancers
 PT
 XX
 XX Claim 12; Fig 306; 647pp; English.
 XX
 CC The invention discloses isolated PRO secreted/transmembrane polypeptides
 CC comprising a sequence without signal peptide and the nucleic acid
 CC encoding them. The polypeptides can be used to raise antibodies that
 CC specifically bind to the PRO polypeptide, for linking a bioactive
 CC molecule to a cell expressing a PRO protein and for modulating at least
 CC one biological activity of a cell. The PRO polypeptides or
 CC polynucleotides are also useful as pharmaceuticals, diagnostics or
 CC biosensors or bioreactors, for detecting or treating e.g. tumors in
 CC mammals, e.g. humans, dogs, cats, cattle, horses, sheep, pigs, goats or
 CC rabbits as targets for therapeutic intervention in certain cancers (e.g.
 CC colon, lung or breast cancers) and diagnostic determination of the
 CC presence of these cancers. The PRO polypeptides are also useful as
 CC molecular weight markers or for chromosome identification. The PRO genes
 CC are useful as hybridization probes or for screening libraries of human
 CC cDNA, genomic DNA or RNA. The PRO genes may also be used in gene
 CC therapy, particularly for replacing a defective gene. The sequences
 CC presented in AB058900-AB059046 are the PRO polypeptides of the invention.
 XX
 XX Sequence 229 AA;
 XX
 Query Match 99.4%; Score 1253; DB 24; Length 229;
 Best Local Similarity 99.6%; Pred. No. 6.5e-119;
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITLNIKTRKDALVSGPASFMRVVALILILCVGNVGVVALGIWSVQNRN 60
 DB 1 MODEDGYITLNIKTRKDALVSGPASFMRVVALILILCVGNVGVVALGIWSVQNRN 60
 QY 61 YLQDENNNRGTITQOLAKRCQYVVKOSSEIKTFKHKSPCTNNRYTGDSCTGFFRRN 120
 DB 61 YLQDENNNRGTITQOLAKRCQYVVKOSSEIKTFKHKSPCTNNRYTGDSCTGFFRRN 120
 QY 121 LTWESKQYCTDMNATILIKIDNNRIYETIARFHLIRWGISRQSKSEVWKEDEGSYISE 180
 DB 121 LTWESKQYCTDMNATILIKIDNNRIYETIARFHLIRWGISRQSKSEVWKEDEGSYISE 180
 QY 181 NMFEFLLEDGKNNMCAYFHNKGKHPTECNKHVLMCRKAKGMTKVDLP 229
 DB 181 NMFEFLLEDGKNNMCAYFHNKGKHPTECNKHVLMCRKAKGMTKVDLP 229

RESULT 14
 ABU13994
 ID ABU13994 standard; Protein; 229 AA.

XX AC ABU13994;
 XX
 XX 26-FEB-2003 (first entry)
 DT
 XX
 XX Human PRO1384 polypeptide.
 DE
 XX Human; PRO polypeptide; secreted protein; transmembrane protein;
 KW genetic disorder; antibacterial; immunosuppressive.
 XX
 XX Homo sapiens.
 OS
 XX
 XX US2002103125-A1.
 PN
 XX 01-AUG-2002.
 PD
 XX 20-NOV-2001; 2001US-0989731.
 XX 05-NOV-1997; 97WO-US20069.

Db 121 LTWESKQCTDMATLLIKIDRNIVEYIKARTHLIRWGLSRQSNENYWKWEDSVISE 180
 QY 181 NMFEPLIDGKNNMCAYFENGXKHPTFCENKHYLMGERARQMTKYDLP 229
 Db 181 NMFEPLIDGKNNMCAYFENGXKHPTFCENKHYLMGERARQMTKYDLP 229
 RESULT 15
 ABU10949
 ID ABU10949 standard; Protein; 229 AA.
 AC ABU10949;
 XX
 DT 04-FEB-2003 (first entry)
 XX
 DE Human PRO polypeptide #135.
 XX
 KW Human; PRO; secreted polypeptide; transmembrane polypeptide;
 KW toxin; radiolabel; cell death; gene mapping; chromosome mapping;
 KW protein electrophoresis; genetic disorder; immunosuppressive; cytostatic;
 KW antibacterial.
 XX
 OS Homo sapiens.
 XX
 PN US2002123463-A1.
 XX
 PD 05-SEP-2002.
 XX
 PF 19-NOV-2001; 2001US-0989732.
 XX
 PR 05-NOV-1997; 97WO-US20069.
 PR 16-SEP-1998; 98WO-US19350.
 PR 17-SEP-1998; 98WO-US19347.
 PR 07-OCT-1998; 98WO-US21141.
 PR 01-DEC-1998; 98WO-US25108.
 PR 05-JAN-1999; 99WO-US00106.
 PR 08-MAR-1999; 99WO-US05028.
 PR 02-JUN-1999; 99WO-US21252.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 30-NOV-1999; 99WO-US28313.
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 06-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 10-MAR-2000; 2000WO-US06319.
 PR 15-MAR-2000; 2000WO-US06864.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 15-MAY-2000; 2000WO-US13358.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 28-JUN-2000; 2000WO-US20710.
 PR 11-AUG-2000; 2000WO-US22031.
 PR 23-AUG-2000; 2000WO-US22522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 29-JUN-2001; 2001WO-US21066.

PR 09-JUN-2001; 2001WO-US21735.
 PR 16-JUN-1997; 97US-049787P.
 PR 17-OCT-1997; 97US-062250P.
 PR 12-NOV-1997; 97US-065186P.
 PR 13-NOV-1997; 97US-065111P.
 PR 24-NOV-1997; 97US-066770P.
 PR 25-FEB-1998; 98US-075945P.
 PR 20-MAR-1998; 98US-078910P.
 PR 28-APR-1998; 98US-083322P.
 PR 07-MAY-1998; 98US-084600P.
 PR 28-MAY-1998; 98US-087106P.
 PR 02-JUN-1998; 98US-087607P.
 PR 02-JUN-1998; 98US-087609P.
 PR 02-JUN-1998; 98US-087759P.
 PR 03-JUN-1998; 98US-087827P.
 PR 04-JUN-1998; 98US-088021P.
 PR 04-JUN-1998; 98US-088025P.
 PR 04-JUN-1998; 98US-088026P.
 PR 04-JUN-1998; 98US-088028P.
 PR 04-JUN-1998; 98US-088029P.
 PR 04-JUN-1998; 98US-088030P.
 PR 04-JUN-1998; 98US-088033P.
 PR 04-JUN-1998; 98US-088326P.
 PR 05-JUN-1998; 98US-088167P.
 PR 05-JUN-1998; 98US-088202P.
 PR 05-JUN-1998; 98US-088212P.
 PR 05-JUN-1998; 98US-088217P.
 PR 09-JUN-1998; 98US-088655P.
 PR 10-JUN-1998; 98US-088734P.
 PR 10-JUN-1998; 98US-088788P.
 PR 10-JUN-1998; 98US-088742P.
 PR 10-JUN-1998; 98US-088810P.
 PR 10-JUN-1998; 98US-088824P.
 PR 10-JUN-1998; 98US-088826P.
 PR 11-JUN-1998; 98US-088858P.
 PR 11-JUN-1998; 98US-088861P.
 PR 11-JUN-1998; 98US-088876P.
 PR 12-JUN-1998; 98US-089105P.
 PR 12-JUN-1998; 98US-089440P.
 PR 16-JUN-1998; 98US-089512P.
 PR 16-JUN-1998; 98US-089514P.
 PR 16-JUN-1998; 98US-089532P.
 PR 17-JUN-1998; 98US-089538P.
 PR 17-JUN-1998; 98US-089539P.
 PR 17-JUN-1998; 98US-089600P.
 PR 17-JUN-1998; 98US-089653P.
 PR 18-JUN-1998; 98US-089801P.
 PR 18-JUN-1998; 98US-089907P.
 PR 18-JUN-1998; 98US-089908P.
 PR 28-AUG-2001; 2001US-0941992.
 XX
 PA (GENTH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Borstein D, Desnoyers I, Eaton DL,
 PI Ferrara N, Fong S, Gerber H, Gyllenstein ME, Goddard A, Godowski PJ,
 PI Grimaldi JC, Gurney AL, Kijavita JV, Napier MA, Pan J, Paoni NF,
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams FW, Wood WI,
 PI Zhang Z;
 XX
 DR WPI; 2003-066810/06.
 DR N-PSDB; ABX17181.
 XX
 PT Novel secreted and transmembrane polypeptide for modulating biological
 PT activity of cell expressing the polypeptide, identifying agonists or
 PT antagonists of polypeptide, and as molecular weight markers
 XX
 PS Claim 12; Fig 306; 655pp; English.
 CC The invention relates to a secreted and transmembrane polypeptide, termed
 CC PRO polypeptide, and the polynucleotide encoding it. The polypeptide is
 CC useful for detecting PRO polypeptides and for linking a bioactive
 CC molecule to a cell expressing the above polypeptides, where the bioactive

CC molecule is a toxin, radiolabel or an antibody. The bioactive material
 CC causes the death of the cell. The polypeptide is useful for identifying
 CC agonists or antagonists of the PRO polypeptide, for preparing variants of
 CC PRO, as a molecular weight marker for protein electrophoresis purposes
 CC and the PRO polynucleotide is useful for recombinantly expressing those
 CC markers. The polynucleotide is also useful as a hybridisation probe, in
 CC chromosome and gene mapping, in generation of antisense RNA and DNA, in
 CC the preparation of PRO polypeptide, for generating transgenic animals or
 CC knockout animals which in turn are useful in the development and
 CC screening of therapeutically useful reagents, to construct hybridisation
 CC probes for mapping the gene which encodes PRO and for the genetic
 CC analysis of individuals with genetic disorders, in gene therapy, for
 CC chromosome identification, as a chromosome marker and for generating
 CC probes for PCR, Northern analysis, Southern analysis and Western
 CC analysis. This sequence represents a human PRO polypeptide of the
 CC invention.

XX
 XX
 SQ Sequence 229 AA:

Query Match 99.4%; Score 1253; DB 24; Length 229;
 Best Local Similarity 99.6%; Pred. No. 6.5e-119;
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITLNTKTRKPAIVSVGPASSFWRRVVALILLICVGMVGLVALGIWSTMQRN 60
 DB 1 MODEDGYITLNTKTRKPAIVSVGPASSFWRRVVALILLICVGMVGLVALGIWSTMQRN 60
 QY 61 YLDENENRRTGTLQOLAKRFQCYVVKOSLKGTFKFKHKSPPCDTNWRYYGDS CYGPFRRN 120
 DB 61 YLDENENRRTGTLQOLAKRFQCYVVKOSLKGTFKFKHKSPPCDTNWRYYGDS CYGPFRRN 120
 QY 121 LTWESKQCYCTDMNATLTKIDNENIVEYIKARTHLIRWGLSRQKSNVWKMGDSYIS 150
 DB 121 LTWESKQCYCTDMNATLTKIDNENIVEYIKARTHLIRWGLSRQKSNVWKMGDSYIS 150
 QY 181 NMFEFLDGGKNNCAVFNKGKHPTECENKHYLMCEKXGMTKVDLP 229
 DB 181 NMFEFLDGGKNNCAVFNKGKHPTECENKHYLMCEKXGMTKVDLP 229

RESULT 16

ABP43587 standard; Protein; 229 AA.

AC ABP43587;

DT 26-FEB-2003 (first entry)

DE Membrane bound protein PRO1384.

XX Neuroprotective; immunomodulator; cancer; chromosome 12;

KW cytosolic; anti-inflammatory; gene therapy; nutritional supplement;

KW wound; burn; ulcer; Alzheimer's disease; Huntington's disease;

KW amyotrophic lateral sclerosis; autoimmune disorder; inflammation;

XX Homo sapiens.

PN WO200231111-A2.

PD 18-APR-2002.

PF 11-OCT-2001; 2001WO-US27760.

PR 12-OCT-2000; 2000US-0687527.

PA (HUSE-) HUSBQ INC.

XX Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao Q, Ren F;

PI Xue AJ, Yang Y, Wehrman T, Drmanac RT;

DR WPI; 2002-426278/45.

DR N-PSDB; AB060831.

XX New polypeptides and their encoded proteins, useful as nutritional
 PT sources or supplements, or in gene therapy, particularly for treating
 PT wounds, Alzheimer's disease, amyotrophic lateral sclerosis, cancer or
 PT inflammation -

PS Claim 20; SEQ ID # 490; 357bp + sequence listing; English.

XX The invention relates to 446 newly isolated polynucleotide sequences.
 CC The activity of polynucleotides of the invention may be described as,
 CC neuroprotective, immunomodulator, cytosolic and the invention
 CC anti-inflammatory. Compositions comprising nucleic acids of the invention
 CC are useful for treating a mammalian subject, or as nutritional sources or
 CC supplements. These are useful in gene therapy, particularly for treating
 CC wounds, burns or ulcers, Alzheimer's disease, Huntington's disease,
 CC amyotrophic lateral sclerosis, autoimmune disorders, cancer or
 CC inflammation. The nucleic acids and polypeptides are also useful in
 CC diagnostic and research methods. The sequences given in records
 CC ABP43544-ABP43989 represent polypeptides encoded by polynucleotides of
 CC the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX
 XX
 SQ Sequence 229 AA:

Query Match 98.7%; Score 1245; DB 23; Length 229;
 Best Local Similarity 99.1%; Pred. No. 4.2e-118;
 Matches 227; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MODEDGYITLNTKTRKPAIVSVGPASSFWRRVVALILLICVGMVGLVALGIWSTMQRN 60
 DB 1 MODEDGYITLNTKTRKPAIVSVGPASSFWRRVVALILLICVGMVGLVALGIWSTMQRN 60
 QY 61 YLDENENRRTGTLQOLAKRFQCYVVKOSLKGTFKFKHKSPPCDTNWRYYGDS CYGPFRRN 120
 DB 61 YLDENENRRTGTLQOLAKRFQCYVVKOSLKGTFKFKHKSPPCDTNWRYYGDS CYGPFRRN 120
 QY 121 LTWESKQCYCTDMNATLTKIDNENIVEYIKARTHLIRWGLSRQKSNVWKMGDSYIS 150
 DB 121 LTWESKQCYCTDMNATLTKIDNENIVEYIKARTHLIRWGLSRQKSNVWKMGDSYIS 150
 QY 181 NMFEFLDGGKNNCAVFNKGKHPTECENKHYLMCEKXGMTKVDLP 229
 DB 181 NMFEFLDGGKNNCAVFNKGKHPTECENKHYLMCEKXGMTKVDLP 229

RESULT 17

ABR39424 standard; protein; 229 AA.

AC ABR39424;

DT 12-JUN-2003 (first entry)

DE Human GENSET polypeptide clone name lectir.

XX GENSET; cytosolic; gene therapy; cancer; transgenic; human.

PN WO2003014151-A2.

PD 20-FEB-2003.

PF 15-OCT-2001; 2001WO-IB02321.

PR 10-AUG-2001; 2001US-311305P.

PR 24-AUG-2001; 2001US-314734P.

PR 07-SEP-2001; 2001US-318204P.

PR 01-OCT-2001; 2001US-326470P.

PA (GEST) GENSET SA.

PI	Bejanin S, Tanaka H;
XX	
DR	WPI; 2003-247989/25.
DR	N-PSDB; AB276247.
XX	
PT	New GENSET gene, useful for preparing a composition for treating
PT	GENSET-related disorders -
XX	
PS	Claim 2; Page 247; 301pp; English.
XX	
CC	The invention relates to isolated GENSET polynucleotides and encoded
CC	polypeptides. The GENSET gene is useful for preparing a composition for
CC	treating GENSET-related disorders e.g., cancer. Sequences ABR39423-448
CC	represent the novel GENSET polypeptide sequences.
XX	
SQ	Sequence 229 AA;
XX	
Query Match	98.7%; Score 1245; DB 24; Length 229;
Best Local Similarity	99.1%; Pred. No. 4,2e-118;
Matches 227; Conservative	0; Mismatches 2; Indels 0; Gaps 0
QY	1 MODEGGYITLTKKTEKPAIVSGPSSFWKRMALITLLICGATVVGVALGIVSWORN 60
DB	1 MODEGGYITLTKKTEKPAIVSGASBSSWRRMALITLLICGATVVGVALGIVSWORN 60
QY	61 YLQDENENNTGTLLQOLAKRFCCYVWQKSELKGTFCXHKCSPCDTWRRYYGDSCYGFPRN 120
DB	61 YLQDENENNTGTLLQOLAKRFCCYVWQKSELKGTFCXHKCSPCDTWRRYYGDSCYGFPRN 120
QY	121 LFWBSKQYCTDMATLTKIDNRNIVEYIKARTALIRWGLSRQKSNVEYWKMDGSYSE 160
DB	121 LFWBSKQYCTDMATLTKIDNRNIVEYIKARTALIRWGLSRQKSNVEYWKMDGSYSE 160
QY	181 NMPEEPEDGKGMNNGAYFENGKQGFPTCENKHYLMCRKAGMTKYDQLP 229
DB	181 NMPEEPEDGKGMNNGAYFENGKQGFPTCENKHYLMCRKAGMTKYDQLP 229
XX	
RESULT 18	
AAU02495	
ID	AAU02495 standard; Protein; 228 AA.
XX	
AC	AAU02495;
XX	
DT	07-SEP-2001 (first entry)
XX	
DS	Human secreted protein TANGO 269.
XX	
KM	Human secreted protein; TANGO 269; clone j1ha35c12; chromosome 12;
KM	type II transmembrane protein; LOX-1; OxLDL; splenic disorder;
KM	lectin-like oxidised low density lipoprotein receptor; adrenal disorder;
KM	liver disorder; blood and hematopoietic associated disorder;
KM	cardiovascular disorder; inflammatory disorder; immune disorder.
XX	
OS	Homo sapiens.
XX	
PH	Key
FT	Peptide
FT	Location/Qualifiers
FT	1..47
FT	/label= Signal_peptide
FT	14..16
FT	/note= "Protein kinase C phosphorylation site"
FT	Modified-site
FT	43..48
FT	/note= "N-myristoylation site"
FT	Protein
FT	48..228
FT	/label= Mature_TANGO_269
FT	68..71
FT	/note= "Aen is N-glycosylated"
FT	Modified-site
FT	95..97
FT	/note= "Protein kinase C phosphorylation site"
FT	Modified-site
FT	99..102
FT	/note= "Casein kinase II phosphorylation site"
FT	Modified-site
FT	106..113

[illegible]

DB 120 LFWESKQYCTDMNATLKTIDNENIVEYIKARHTLIRWGLSRQKSNVWKMEDGVSISE 179
 QY 181 NMPEFLDGGKNNMCAYFENGKMPFCENKGYLMCEKRGMTKVVDLP 229
 DB 180 NMPEFLDGGKNNMCAYFENGKMPFCENKGYLMCEKRGMTKVVDLP 228

RESULT 19
 AAM25751
 ID AAM25751 standard; Protein; 257 AA.

AC AAM25751;
 DT 16-OCT-2001 (first entry)
 DE Human protein sequence SEQ ID NO:1266.

Human; cancer; ulcer; HIV infection; human immunodeficiency virus;
 antiinflammatory; antirheumatic; anticholinergic; immunosuppressive;
 antibacterial; endocrine; cardiac; central nervous system; vitruide;
 anti-HIV; fungicide; antimutagen; cardiovascular; antianaemic; anaemia;
 antiaggregant; haemostatic; vulnery; antilucer; osteopathic; eczema;
 dermatological; antiallergic; antiasumatic; antidiabetic; cytostatic;
 neuroprotective; antidepressant; nootropic; antiparkinsonian; infection;
 immunostimulant; gene therapy; antisense therapy; vaccine; inflammation;
 anaphylactic; rheumatoid arthritis; septic shock; pancreatitis;
 cardiac dysfunction; neuropathology; cardiac anaphylaxis; autoimmunity;
 genetic disease; haematopoietic disorder; platelet disorder; asthma;
 thrombocytopenia; osteoporosis; severe combined immunodeficiency;
 allergic rhinitis; diabetes; multiple sclerosis; depression;
 Alzheimer's disease; Parkinson's disease; neurodegenerative disorder;
 neurological disorder.

OS Homo sapiens.
 PN WO200153455-A2.

PD 26-JUL-2001.

XX 22-DEC-2000; 2000WO-US35017.

XX 23-DEC-1999; 99US-0471275.

PR 21-JAN-2000; 2000US-0489725.

PR 25-APR-2000; 2000US-0552317.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Drmanac RT;

XX WPI, 2001-457603/49.

DR N-PSDB; AAH9692.

XX Isolated human polynucleotides encoding polypeptides, useful for the

XX treatment and diagnosis of e.g. cancer, ulcers and HIV infection -

XX Claim 20; Page 263; 1217bp; English.

XX AAH99166 to AAH9904 encode the human proteins given in AAM25225 to
 CC AAM25963. The proteins can have activities based on the tissues and
 CC cells they are expressed in, such as: antiinflammatory; antirheumatic;
 CC antiallergic; immunosuppressive; antibacterial; endocrine; cardiac;
 CC central nervous system; vitruide; anti-HIV; fungicide; antimutagen;
 CC cardiovascular; antianaemic; antiaggregant; haemostatic; vulnery;
 CC antilucer; osteopathic; dermatological; antiallergic; antiasumatic;
 CC antiaggregant; cytosstatic; neuroprotective; antidepressant; nootropic;
 CC antiparkinsonian; and immunostimulant. The proteins and polynucleotides
 CC encoding them can be used in gene therapy, antisense therapy and vaccine
 CC production. The proteins and polynucleotides are useful for screening for
 CC agonists or antagonists of a protein and for the treatment and diagnosis
 CC of disorders associated with the activity of a protein e.g. inflammation,
 CC rheumatoid arthritis, septic shock, pancreatitis, cardiac dysfunction,
 CC neuropathology, cardiac anaphylaxis, viral, bacterial, HIV and fungal

CC infections, autoimmunity, genetic diseases, haematopoietic disorders,
 CC anaemia, platelet disorders, thrombocytopenia, wounds, burns, ulcers,
 CC osteoporosis, severe combined immunodeficiency, eczema, allergic
 CC rhinitis, asthma, diabetes, cancer, multiple sclerosis, depression,
 CC Alzheimer's disease, Parkinson's disease, neurodegenerative and
 CC neurological disorders.

XX Sequence 257 AA;

Query Match 96.2%; Score 1212.5; DB 22; Length 257;
 Best local similarity 97.0%; Pred. No. 9,8e-115;
 Matches 223; Conservative 1; Mismatches 5; Indels 1; Gaps 1;

QY 1 MODEDGYITLNTKRPALYSVGPASSFWRRWMAJLILICVGVVGVNGLGWSVQGN 60
 DB 20 MODEDGYITLNTKRPALYSVGPASSFWRRWMAJLILICVGVVGVNGLGWSVQGN 79
 QY 61 YLQDENENRIGTLOQLAKRCQYVVKOSLKGTFKHKCSPCDTNWEYVYDSCYGFPRAN 120
 DB 80 YLQDENENRIGTLOQLAKRCQYVVKOSLKGTFKHKCSPCDTNWEYVYDSCYGFPRAN 139
 QY 121 LFWESKQYCTDMNATLKTIDNENIVEYIKARHTLIRWGLSRQKSNVWKMEDGVSISE 180
 DB 140 LFWESKQYCTDMNATLKTIDNENIVEYIKARHTLIRWGLSRQKSNVWKMEDGVSISE 199
 QY 161 NMPEFLDGGKNNMCAYFENGKMPFCENKGYLMCEKRGMTKVVDLP 229
 DB 200 NMPEFLDGGKNNMCAYFENGKMPFCENKGYLMCEKRGMTKVVDLP 249

RESULT 20

ID AAM2496 standard; Protein; 229 AA.

XX AAM2496;

XX 07-SEP-2001 (first entry)

XX Murine secreted protein TANGO 269.

XX Murine secreted protein; TANGO 269; clone jtmca040e07; mouse;
 KW type II transmembrane protein; LOX-1; OxLDL; splenic disorder;
 KW lectin-like oxidized low density lipoprotein receptor; megakaryocyte;
 KW liver disorder; blood and haematopoietic associated disorder;
 KW cardiovascular disorder; inflammatory disorder; immune disorder.

XX Mus sp.

XX Key Location/Qualifiers

XX Peptide 1..46

XX Modified-site 20..23 "Casein kinase II phosphorylation site"

XX Modified-site 42..47 "note= 'N-myristoylation site'"

XX Protein 47..229

XX Modified-site 67..70 "label= Mature_TANGO_269"

XX Modified-site 79..82 "note= 'Asn is N-glycosylated'"

XX Modified-site 93..96 "note= 'Casein kinase II phosphorylation site'"

XX Modified-site 107..114 "note= 'Casein kinase II phosphorylation site'"

XX Domain 110..137 "note= 'Tyrosine kinase phosphorylation site'"

XX Modified-site 120..123 "label= Extracellular_link_domain"

XX Modified-site 122..125 "note= 'Asn is N-glycosylated'"

XX Modified-site 128..216 "note= 'Casein kinase II phosphorylation site'"

XX Domain 128..216 "label= C-type_lectin_domain"

FT Modified-site 134..137
 /note="Asn is N-glycosylated"
 FT Modified-site 144..147
 /note="Casein kinase II phosphorylation site"
 FT Modified-site 155..157
 /note="Protein kinase C phosphorylation site"
 FT Modified-site 166..168
 /note="Protein kinase C phosphorylation site"
 FT Modified-site 166..169
 /note="Casein kinase II phosphorylation site"
 FT Modified-site 182..187
 /note="N-myristoylation site"
 FT Modified-site 184..187
 /note="Asn is N-glycosylated"
 FT Modified-site 207..209
 /note="Protein kinase C phosphorylation site"
 FT Modified-site 207..210
 /note="Casein kinase II phosphorylation site"
 FT Modified-site 223..226
 /note="Casein kinase II phosphorylation site"

MO200130831-A1.
 03-MAY-2001.
 27-OCT-2000; 2000WO-US29797.
 27-OCT-1999; 99US-0417796.
 17-MAY-2000; 2000US-0572275.
 (MILL-) MILLBENITUM PHARM INC.
 Fraser CC, Hodge NR;
 WPI; 2001-300479/31.
 N-PsDB; AAS04268.

FT New nucleic acid molecule encoding type II transmembrane proteins
 PT useful for treating immune related disorders -
 XX
 PS Claim 9; Fig 6; 137pp; English.

CC The present sequence representing a novel murine secreted protein
 CC TANGO 269 is isolated from clone Jtmac04e07 from a mouse megakaryocyte
 CC cDNA library. Human TANGO 269 (AAU02495) is also described. TANGO 269
 CC which is a type II transmembrane protein shows sequence homology to
 CC human lectin-like oxidised low density lipoprotein receptor (LOX-1).
 CC TANGO 269 may bind oxidised low density lipoprotein (OxLDL) to modulate
 CC the pathway. TANGO 269 may be used to liver disorders (e.g. cirrhosis),
 CC bone marrow, blood and haematopoietic associated disorders (e.g.
 CC leukaemia), spleen disorders (e.g. splenomegaly), cardiovascular
 CC disorders (e.g. ischaemic heart disease, atherosclerosis), immune
 CC disorders (e.g. arthritis, AIDS), inflammatory disorders (e.g. bacterial
 CC infection), TNP-alpha related disorders (e.g. acute myocarditis) and
 CC platelet disorders (e.g. thrombosis). The invention also describes the
 CC novel secreted protein human TANGO 298 (AAU02497).

XX Sequence 229 AA;

Query Match 61.5%; Score 776; DB 22; Length 229;
 Best Local Similarity 63.0%; Pred. No. 1.8e-70;
 Matches 145; Conservative 31; Mismatches 50; Indels 4; Gaps 3;

QY 1 MODEDGYITLNTKRRPAIVSVGPASSFWRVVALLILLCVGMVGVVGLVGMVGMN 60
 DB 1 MODEDGYITLNTKRRPAIVSVGPASSFWRVVALLILLCVGMVGVVGLVGMVGMN 59
 QY 61 YLQDENHNRGTGLQGLAKRPGQYVVKOSL--KGTFRGKSCSPDFTNRYGSCYGFPR 118
 DB 60 YLAEKENISATLQGLAKRSCQGLRQSEIKTKSTB-HKCSFCATKRWYHSGCYGFPR 118
 QY 119 HNTWEESKQYCTDMNATLILKIDNRNIVEYIKARLIRWVGLSRQSKSNFWKMDGSYI 178
 DB 119 HNTWEESKQYCTDMNATLILKIDNRNIVEYIKARLIRWVGLSRQSKSNFWKMDGSYI 178

DB 119 RNLWEESKQYCTEQNATIVXTASQSTLIDYIAERITSVEMIGLSRONSKMDWMDSSYL 178
 QY 179 SEMRFPFLDDGKGNMNCATFHNQKAPTECNKKHYIMCERXKGMTVDOL 228
 DB 179 RKNGLNSGNTENNCAYLHNGKHPASCCKEYHLCERNAGNTRVDOL 228

RESULT 21

AAV05317
 ID AAV05317 standard; Protein; 280 AA.

AAV05317;
 25-JUN-1999 (first entry)

DE Human secreted protein bn97_1

XX Secreted protein; human; nutritional activity; cytokine; tissue growth;
 KW cell proliferation; cell differentiation; immune stimulant; chemotaxis;
 KW immune suppressant; haematopoiesis regulator; activator; inhibiting; cadherin;
 KW chemokinesis; haemostasis; thrombolysis; anti-inflammatory; gene therapy;
 KW tumour invasion suppressor; tumour inhibitor.

XX Homo sapiens.

XX WC9913066-A1.

XX 18-MAR-1999.

XX 08-SEP-1998; 98WO-US8724.

XX 08-SEP-1997; 97US-0929007.

XX (GENY) GENETICS INST INC.

XX Agostino MJ, Evans C, Jacobs K, Lavallie ER, McCoy JM;
 PI Merberg D, Racie LA, Spaulding V, Treacy M;
 XX WPI; 1999-229235/19.
 DR N-PsDB; AAX33810.

XX New polynucleotides encoding secreted human proteins

XX Claim 8; Page 79; 96pp; English.

CC This sequence is a human secreted protein of the invention. The
 CC secreted proteins were obtained from human adult placenta, foetal brain,
 CC adult testes or adult blood cDNA libraries. The polynucleotides (PNS) and
 CC proteins are predicted to have biological activities which would make
 CC them suitable for treating, preventing or ameliorating medical conditions
 CC in humans and animals, although no supporting data is given. Suggested
 CC activities include nutritional activity, cytokine and cell
 CC proliferation/differentiation activity, immune stimulating
 CC (e.g. as vaccines) or suppressing activity, haematopoiesis regulating
 CC activity, tissue growth activity, activator/inhibitor activity,
 CC chemotactic/chemokinetic activity, haemostatic and thrombolytic activity,
 CC receptor/ligand activity, anti-inflammatory activity, cadherin/tumour
 CC invasion suppressor activity, and tumour inhibition activity. The PNS are
 CC also stated to be useful for gene therapy.

XX Sequence 280 AA;

Query Match 28.0%; Score 352.5; DB 20; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MODEDGYITLNTKRRPAIV-----SVGPASSFWRVVALLILLCVGMVGVVGLVGM 53
 DB 11 MDDDDGYITLNTKRRPAIV-----SVGPASSFWRVVALLILLCVGMVGVVGLVGM 70
 QY 54 M-----SVGQKNY-----LQDENHNRGTGLQGLAKRPGQYVVKOSL 89
 DB 71 LFFQYQLSNTGQDTLSQWERLGNSTQGLSLQVONIKLAGSLQVHAEKCR-----E 124

QY 90 LKSTFGHKHCKSPDCTWRYGDSYGFPRHNLTWESKOYCTDMAATLKIDNRNIVEYI 149
 Db 125 LNKAGAHKRSCTEBCWKMHGDCYQFYKDSKSWEDCKYFCJSENSMTMKIKNOEDLEFA 184
 QY 150 KARTH---LIRVGLSRQKSNVWKMEDGSVISENMFEELED--GKGNMKCAYPHNGKM 203
 Db 185 ASQSYSEFFYSYWTGLLRPSGKAMLMMDGTPTSELFIHIDVTSFPRSDCAVAILNGMI 244
 QY 204 HPTFCNKHYLMGERKAGMTKVDQL 228
 Db 245 FSKDCKELKRCVCERRAGWKPESL 269

RESULT 22
 AAB42619
 ID AAB42619 standard; protein; 280 AA.
 AC AAB42619;
 XX
 DT 08-FEB-2001 (first entry)
 DE Human ORFX ORF2363 polypeptide sequence SEQ ID NO:4756.
 XX
 KW Human; open reading frame; ORFX; detection; cytostatic; hepatotropic;
 KW vulnery; antiparkinsonian; antiparkinsonian; noctropic; neuroprotective;
 KW anticonvulsant; osteopathic; antiarthritic; immunosuppressant; cardiant;
 KW immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;
 KW hypotensive; dermatological; immunosuppressive; antineoplastic;
 KW antiviral; antibacterial; antifungal; antineoplastic; antihypertensive;
 KW antineoplastic; gene therapy; cancer; proliferative disorder; hypertension;
 KW neurodegenerative disorder; osteoarthritis; graft vs host disease;
 KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;
 KW cholesterol ester storage; systemic lupus erythematosus; infection;
 KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
 KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
 KW bone damage; cartilage damage; antiinflammatory disease; coagulation;
 KW thrombosis; contraceptive.
 XX
 OS Homo sapiens.
 PN WO200058473-A2.
 PD 05-OCT-2000.
 PF 31-MAR-2000; 2000WO-US08621.
 PR 31-MAR-1999; 99US-0127607.
 PR 02-APR-1999; 99US-0127636.
 PR 05-APR-1999; 99US-0127728.
 PR 30-MAR-2000; 2000US-0540763.
 XX
 PA (CUBA-) CUBAGEN CORP.
 PI Shimketa RA, Leach M,
 XX WPI; 2000-602362/57.
 DR N-PSDB; AAC76828.
 XX
 PT Novel nucleic acids and peptides derived from open reading frame X,
 PT useful for treating e.g. cancers, proliferative disorders,
 PT neurodegenerative disorders and cardiovascular disease -
 XX
 PS Claim 11; Page 3947-3948; 5507pp; English.
 CC AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397,
 CC which represent the human ORFX open reading frames 1 to 3161. The ORFX
 CC sequences have activities such as: cytostatic; hepatotropic; vulnery;
 CC antiparkinsonian; noctropic; neuroprotective;
 CC anticonvulsant; antidiabetic; antineoplastic; immunosuppressant;
 CC osteopathic; antiparkinsonian; antiparkinsonian; antiparkinsonian;
 CC immunostimulant; cardiant; thrombolytic; coagulant; vasotropic;
 CC antidiabetic; hypotensive; dermatological; immunosuppressive;
 CC antiinflammatory; antibacterial; antiviral; antifungal; antineoplastic;

CC antihypertensive; and antineoplastic. The sequences can be used for determining
 CC the presence of or predisposition to, or preventing or treating
 CC pathological conditions associated with an ORFX-associated disorder. The
 CC nucleic acids can be used to express ORFX proteins in gene therapy
 CC vectors. The proteins and nucleic acids may be used to treat cancers,
 CC proliferative disorders, neurodegenerative disorders, osteoarthritis,
 CC graft vs host disease, cardiovascular disease, diabetes mellitus,
 CC hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
 CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,
 CC bacterial or fungal infection, malaria, autoimmune disorders, asthma,
 CC allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,
 CC nocturnal haemoglobinuria, antiinflammatory disease; to enhance
 CC coagulation; to inhibit thrombosis; and as a contraceptive.

SQ Sequence 280 AA;
 XX
 Query Match 28.0%; Score 352.5; D5 21; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MODEGYITLNTKTKPVALY-----SYGPASSFWRMALILLCYGMVGVVAIGI 53
 Db 11 MLDDDDGTTMSLRSQASATTRHPEPRRTIRAPSSYRWVALTLTLCLVLLGLALGL 70
 QY 54 W-----SVNQPNY-----LDENENRGTGLQJLAKFCQYVVKQS 89
 Db 71 LRFQYQLSNTGDTTSCHEBRIGNTSGLQSIQVNTLASLQVAAELCR-----E 124
 QY 90 LKSTFGHKHCKSPDCTWRYGDSYGFPRHNLTWESKOYCTDMAATLKIDNRNIVEYI 149
 Db 125 LNKAGAHKRSCTEBCWKMHGDCYQFYKDSKSWEDCKYFCJSENSMTMKIKNOEDLEFA 184
 QY 150 KARTH---LIRVGLSRQKSNVWKMEDGSVISENMFEELED--GKGNMKCAYPHNGKM 203
 Db 185 ASQSYSEFFYSYWTGLLRPSGKAMLMMDGTPTSELFIHIDVTSFPRSDCAVAILNGMI 244
 QY 204 HPTFCNKHYLMGERKAGMTKVDQL 228
 Db 245 FSKDCKELKRCVCERRAGWKPESL 269

RESULT 23
 AAY66728
 ID AAY66728 standard; protein; 280 AA.
 AC AAY66728;
 XX
 DT 05-APR-2000 (first entry)
 DE Membrane-bound protein PRO1131.
 XX
 KW Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;
 KW pharmaceutical; receptor immunoadhesin; gene mapping.
 XX
 OS Homo sapiens.
 PN WO9963088-A2.
 PD 09-DEC-1999.
 PF 02-JUN-1999; 99WO-US12252.
 PR 02-JUN-1998; 98US-0087607.
 PR 02-JUN-1998; 98US-0087609.
 PR 02-JUN-1998; 98US-0087759.
 PR 03-JUN-1998; 98US-0087827.
 PR 04-JUN-1998; 98US-0088021.
 PR 04-JUN-1998; 98US-0088025.
 PR 04-JUN-1998; 98US-0088028.
 PR 04-JUN-1998; 98US-0088029.
 PR 04-JUN-1998; 98US-0088030.
 PR 04-JUN-1998; 98US-0088033.
 PR 04-JUN-1998; 98US-0088036.

PR 05-JUN-1998; 98US-0088167.
PR 05-JUN-1998; 98US-0088202.
PR 05-JUN-1998; 98US-0088212.
PR 05-JUN-1998; 98US-0088217.
PR 09-JUN-1998; 98US-0088655.
PR 10-JUN-1998; 98US-0088722.
PR 10-JUN-1998; 98US-0088730.
PR 10-JUN-1998; 98US-0088734.
PR 10-JUN-1998; 98US-0088738.
PR 10-JUN-1998; 98US-0088740.
PR 10-JUN-1998; 98US-0088741.
PR 10-JUN-1998; 98US-0088742.
PR 10-JUN-1998; 98US-0088810.
PR 10-JUN-1998; 98US-0088811.
PR 10-JUN-1998; 98US-0088824.
PR 10-JUN-1998; 98US-0088825.
PR 11-JUN-1998; 98US-0088826.
PR 11-JUN-1998; 98US-0088858.
PR 11-JUN-1998; 98US-0088861.
PR 11-JUN-1998; 98US-0088863.
PR 11-JUN-1998; 98US-0088876.
PR 12-JUN-1998; 98US-0089090.
PR 12-JUN-1998; 98US-0089105.
PR 16-JUN-1998; 98US-0089240.
PR 16-JUN-1998; 98US-0089512.
PR 16-JUN-1998; 98US-0089514.
PR 17-JUN-1998; 98US-0089532.
PR 17-JUN-1998; 98US-0089538.
PR 17-JUN-1998; 98US-0089539.
PR 17-JUN-1998; 98US-0089598.
PR 17-JUN-1998; 98US-0089600.
PR 17-JUN-1998; 98US-0089653.
PR 18-JUN-1998; 98US-0089801.
PR 18-JUN-1998; 98US-0089907.
PR 18-JUN-1998; 98US-0089908.
PR 19-JUN-1998; 98US-0089947.
PR 19-JUN-1998; 98US-0089948.
PR 19-JUN-1998; 98US-0089952.
PR 22-JUN-1998; 98US-0090246.
PR 22-JUN-1998; 98US-0090252.
PR 22-JUN-1998; 98US-0090254.
PR 23-JUN-1998; 98US-0090349.
PR 23-JUN-1998; 98US-0090355.
PR 24-JUN-1998; 98US-0090429.
PR 24-JUN-1998; 98US-0090431.
PR 24-JUN-1998; 98US-0090435.
PR 24-JUN-1998; 98US-0090444.
PR 24-JUN-1998; 98US-0090445.
PR 24-JUN-1998; 98US-0090461.
PR 24-JUN-1998; 98US-0090472.
PR 24-JUN-1998; 98US-0090535.
PR 24-JUN-1998; 98US-0090538.
PR 24-JUN-1998; 98US-0090540.
PR 24-JUN-1998; 98US-0090557.
PR 25-JUN-1998; 98US-0090676.
PR 25-JUN-1998; 98US-0090678.
PR 25-JUN-1998; 98US-0090686.
PR 25-JUN-1998; 98US-0090690.
PR 25-JUN-1998; 98US-0090691.
PR 25-JUN-1998; 98US-0090694.
PR 25-JUN-1998; 98US-0090695.
PR 25-JUN-1998; 98US-0090696.
PR 25-JUN-1998; 98US-0090699.
PR 26-JUN-1998; 98US-0090862.
PR 26-JUN-1998; 98US-0090863.
PR 01-JUL-1998; 98US-0091358.
PR 01-JUL-1998; 98US-0091360.
PR 01-JUL-1998; 98US-0091544.
PR 02-JUL-1998; 98US-0091478.
PR 02-JUL-1998; 98US-0091486.
PR 02-JUL-1998; 98US-0091515.
PR 02-JUL-1998; 98US-0091626.
PR 02-JUL-1998; 98US-0091628.
PR 02-JUL-1998; 98US-0091633.

PR 02-JUL-1998; 98US-0091646.
PR 02-JUL-1998; 98US-0091673.
PR 07-JUL-1998; 98US-0091978.
PR 07-JUL-1998; 98US-0091982.
PR 09-JUL-1998; 98US-0092182.
PR 10-JUL-1998; 98US-0092472.
PR 20-JUL-1998; 98US-0093339.
PR 30-JUL-1998; 98US-0094651.
PR 04-AUG-1998; 98US-0095282.
PR 04-AUG-1998; 98US-0095283.
PR 04-AUG-1998; 98US-0095301.
PR 04-AUG-1998; 98US-0095302.
PR 04-AUG-1998; 98US-0095318.
PR 04-AUG-1998; 98US-0095321.
PR 04-AUG-1998; 98US-0095325.
PR 10-AUG-1998; 98US-0095916.
PR 10-AUG-1998; 98US-0095929.
PR 10-AUG-1998; 98US-0096012.
PR 11-AUG-1998; 98US-0096143.
PR 11-AUG-1998; 98US-0096146.
PR 12-AUG-1998; 98US-0096329.
PR 17-AUG-1998; 98US-0096757.
PR 17-AUG-1998; 98US-0096766.
PR 17-AUG-1998; 98US-0096768.
PR 17-AUG-1998; 98US-0096773.
PR 17-AUG-1998; 98US-0096791.
PR 17-AUG-1998; 98US-0096867.
PR 17-AUG-1998; 98US-0096891.
PR 17-AUG-1998; 98US-0096894.
PR 17-AUG-1998; 98US-0096895.
PR 17-AUG-1998; 98US-0096897.
PR 18-AUG-1998; 98US-0096899.
PR 18-AUG-1998; 98US-0096950.
PR 18-AUG-1998; 98US-0096960.
PR 18-AUG-1998; 98US-0097022.
PR 19-AUG-1998; 98US-0097141.
PR 20-AUG-1998; 98US-0097218.
PR 20-AUG-1998; 98US-0097261.
PR 26-AUG-1998; 98US-0097951.
PR 26-AUG-1998; 98US-0097952.
PR 26-AUG-1998; 98US-0097954.
PR 26-AUG-1998; 98US-0097955.
PR 26-AUG-1998; 98US-0097971.
PR 26-AUG-1998; 98US-0097974.
PR 26-AUG-1998; 98US-0097978.
PR 26-AUG-1998; 98US-0097979.
PR 26-AUG-1998; 98US-0097986.
PR 26-AUG-1998; 98US-0098014.
PR 31-AUG-1998; 98US-0098525.
PR 16-SEP-1998; 98US-0100634.
PR 12-JAN-1999; 99US-0115565.

(GENTH) GENENTECH INC.
PA Baker K, Chen J, Goddard A, Gurney AL, Smith V, Wetanabe CK;
PI Wood WI, Yuan J;
XX WPI, 2000-072883/06.
DR N-PSDB; AAZ65072.
XX
PT Membrane-bound proteins and related nucleotide sequences -
XX
PS claim 12; Fig 23C; 822pp; English.
XX
CC The invention provides membrane-bound PRO polypeptides and
CC polynucleotides encoding them. The PRO sequences of the invention were
CC identified based on extracellular domain homology screening. The PRO
CC sequences have homology with proteins including LDL receptors, TIR
CC ligands and various enzymes. The membrane-bound proteins and receptor
CC moieties are useful as pharmaceutical and diagnostic agents. Receptor
CC immunoadhesins, for instance, can be used as therapeutic agents to block
CC receptor-ligand interactions. The membrane-bound proteins can also be

KM cerebral ischaemia; arterial thrombosis; thrombolytic; antilipemic;
 KM coronary artery thrombosis; cerebral artery thrombosis; stroke;
 KM intracardiac thrombosis; gene therapy; cardiovascular; vasodilator;
 KM neuroprotectant; cerebroprotective.
 XX Homo sapiens.
 FN WO200179446-A2.
 XX
 PD 25-OCT-2001.
 XX
 PF 16-APR-2001; 2001WO-US12529.
 XX
 PR 14-APR-2000; 2000US-197137P.
 PR 20-JUN-2000; 2000US-0598042.
 PR 03-AUG-2000; 2000US-0631451.
 PR 22-SEP-2000; 2000US-0667299.
 PR 17-NOV-2000; 2000US-0714936.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Ballinger DG, Ioeb D, Montgomery JR, Tang TY, Zhou P, Goodrich R,
 PI Liu C, Asundi V, Zhao QA, Wehrman T, Dymnac RT, Ren F, Qian XB,
 PI Wang D;
 XX
 DR MPI: 2001-611724/70.
 DR N-PSDB; AAD19233.
 XX
 PT Nucleic acids encoding human apolipoproteins, lipases, and lipoprotein
 PT receptor polypeptides, useful for preventing diagnosing and treating
 PT lipid metabolism disorders, thrombosis and cardiovascular diseases -
 XX
 PS Claim 10; Page 252; 266pp; English.
 XX
 CC The invention relates to polynucleotides encoding proteins CG122, CG179,
 CC CG95, CG121, CG162, CG27, CG153 and CG168 which are related to proteins
 CC involved in lipid metabolism and cardiovascular disease such as human
 CC apolipoproteins, lipases and lipoprotein receptor proteins. These DNA
 CC and protein sequences are useful for treating or preventing disorders
 CC associated with apolipoproteins, lipases and lipoprotein receptor (ALR)
 CC expression and for treating lipid metabolism, cardiovascular diseases
 CC and thrombosis. Antibodies against these proteins are useful for
 CC determining the presence of or predisposition to a disease associated
 CC with altered levels of these sequences. ALR polypeptides are also
 CC useful for identifying agents (agonists and antagonists) that bind to
 CC them and cells expressing ALR proteins are useful for identifying a
 CC therapeutic agent for use in treatment of a pathology related to
 CC aberrant expression or physiological interactions of this polypeptide.
 CC Vectors comprising these DNA and protein sequences are also useful for
 CC producing ALR proteins. The nucleic acids and polypeptides of the
 CC invention are also useful for the treatment of occlusive cardiovascular
 CC diseases, myocardial infarction, cerebral ischaemia, angina, arterial
 CC thrombosis, coronary artery thrombosis and cerebral artery thrombosis
 CC or intracardiac thrombosis and stroke. The nucleic acids of the invention
 CC are used in gene therapy. The present sequence is human protein
 CC related to proteins involved in lipid metabolism.
 XX
 SO Sequence 280 AA;
 Query Match 28.0%; Score 352.5; DB 22; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
 QY 1 MODEGCTTINKIKRPLV-----SVGPASSWFWVMAILLICVMVGVIAIGI 53
 DB 11 MDDDDGDTTMSLSQASATRHPERRRERAPSSWTWPVALTTLTLVLIIAGALGI 70
 QY 54 W-----SYMORRY-----LOENENRGTQOQLAKRCQGVVVKSE 89
 DB 71 LFFQYQSLNSTGQDTISQMERLIGTSGELQSLQVQNTKLASSLOHVEKLCR-----E 124
 QY 90 LKGTFFGKSGSPCDTINWRYVDSYGFRRHLTWEESSQYCTDNWATLLKIDNRIVYEI 149

DB 125 LYNKAGNRCSPTCEQMKHGDNCQFYKDSKSMEDCKYFCLSENSTMILKINKOEULEFA 164
 QY 150 KANTH---LIRVVGSRQKSNFVWKWEDGSVISENNFEELE-D-GKANNCAVFPNGKM 203
 DB 183 ASQSYSEFFYSYWTGILRPDSGRKAWMDQTPFTSELIHIIIVTSFRRSDCAVAINMI 244
 QY 204 HPTFCENKHYLNCERKAGMTKYDQL 228
 DB 245 PSKDCKELRKRCVCRBAGVYKPSL 269
 RESULT 26
 AAU29324
 ID AAU29324 standard; Protein; 280 AA.
 XX
 AC AAU29324;
 XX
 DT 18-DEC-2001 (first entry)
 XX
 DE Human PRO polypeptide sequence #301.
 XX
 KM PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
 KM dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
 KM blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
 KM adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
 XX
 OS Homo sapiens.
 XX
 FN WO200168848-A2.
 XX
 PD 20-SEP-2001.
 XX
 PF 28-FEB-2001; 2001WO-US06520.
 XX
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 03-MAR-2000; 2000US-187202P.
 PR 06-MAR-2000; 2000US-186968P.
 PR 14-MAR-2000; 2000US-189328P.
 PR 14-MAR-2000; 2000US-189328P.
 PR 15-MAR-2000; 2000WO-US06684.
 PR 21-MAR-2000; 2000US-190828P.
 PR 21-MAR-2000; 2000US-191007P.
 PR 21-MAR-2000; 2000US-191048P.
 PR 21-MAR-2000; 2000US-191315P.
 PR 28-MAR-2000; 2000US-192653P.
 PR 29-MAR-2000; 2000US-193032P.
 PR 29-MAR-2000; 2000US-193053P.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 04-APR-2000; 2000US-194449P.
 PR 04-APR-2000; 2000US-194647P.
 PR 11-APR-2000; 2000US-195975P.
 PR 11-APR-2000; 2000US-196000P.
 PR 11-APR-2000; 2000US-196187P.
 PR 11-APR-2000; 2000US-196690P.
 PR 11-APR-2000; 2000US-196820P.
 PR 18-APR-2000; 2000US-198123P.
 PR 18-APR-2000; 2000US-198585P.
 PR 25-APR-2000; 2000US-199379P.
 PR 25-APR-2000; 2000US-199550P.
 PR 25-APR-2000; 2000US-199654P.
 PR 03-MAY-2000; 2000US-201516P.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 05-JUN-2000; 2000US-209832P.
 PR 28-JUN-2000; 2000WO-US20710.
 PR 22-AUG-2000; 2000US-0644848.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34956.

XX (GENTH) GENENTECH INC.
 PA Baker KP, Chen J, Desnoyers J, Goddard A, Godowski PJ, Gurney AL;
 PI Pan U, Smith V, Watanabe CK, Wood WI, Zhang Z;
 XX WPI; 2001-602746/68.
 DR N-PSDB; AAS46225.
 PT Novel nucleic acids encoding PRO polypeptides, used to diagnose the
 PT presence of tumors, such as prostate and breast tumours, in mammals and
 PT to screen for modulators of the compounds -
 PS Claim 11; Fig 602; 774pp; English.
 XX
 CC Sequences AAU29024-AAU29338 represent PRO polypeptides of the invention.
 CC The PRO polypeptides and their associated nucleic acids can be used to
 CC detect the presence of a tumour in a mammal by comparing the level of
 CC expression of a PRO polypeptide in a test sample of cells from the animal
 CC and a control sample of normal cells, whereby a higher level of
 CC expression in the test sample indicates the presence of a tumour in the
 CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
 CC and rabbits but are preferably human. The polypeptides can be used to
 CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
 CC when contacted with it. A specific polypeptide can be used to stimulate
 CC the proliferation or differentiation of chondrocyte cells. The PRO
 CC proteins can be used to determine the presence of tumours and also
 CC susceptibility to tumour development, particularly adrenal, lung, colon,
 CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
 CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
 CC can be used for genetic analysis of individuals with genetic disorders.
 XX
 SQ Sequence 280 AA;
 Query Match 28.0%; Score 352.5; DB 22; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
 QY 1 MODEGYYTINIKRKPAV-----SVGPASSFWRRVALLILICVGVVGLVAGI 53
 Db 11 MLDDDDGTMTSLHSQASATRRPEPRTERHAPSSTWRPVALTLTLCLVLLIGLALGL 70
 QY 54 W-----SYMGRNY-----LQDENENRTGTLQOLAKRRCQYVVQSE 89
 Db 71 LFPQYQJLSTNGQDTISQMEERLQNTSOELQSLQVQNIKLASIQHVAEKLCR-----E 124
 QY 90 LKGTFRKHGKSPCDTNWRYGDSQYGFPRHNLTWESKOYCTDMNALLKIDNNIVEYI 149
 Db 125 LYNKAGAHRCSPCTEQWKMHDNOCYQFYKSKSWEDCKYFCLSENSIMLKINQEDLEFA 184
 QY 150 KARTH---LIRWGLSRQKSNVWKWEDGSVTSSENMEFLD--GKANNACAYFHNGKM 203
 Db 185 ASQSYSEPFYSYWTGLLRPDSGKXALWMDGTPFTSELPHIITVTSRSDCVAILNGMI 244
 QY 204 HPTFCENGHYLMCERKAGTKVDOL 228
 Db 245 FSKDCKELKRCVCERRAGWKPESL 269
 RESULT 27
 AAU93544
 ID AAU93544 standard; Protein; 280 AA.
 AC AAU93544;
 XX
 DT 06-NOV-2001 (first entry)
 XX
 DE Human polypeptide, SEQ ID NO: 3297.
 XX
 KW Human; full length cDNA; cDNA synthesis; oligo-capping.
 XX
 OS Homo sapiens.
 XX

PN EPI130034-A2.
 PD 05-SEP-2001.
 XX
 PD 07-JUL-2000; 2000EP-0114089.
 XX
 PR 08-JUL-1999; 99JP-0194486.
 PR 11-JAN-2000; 2000JP-0118774.
 PR 02-MAY-2000; 2000JP-0183765.
 XX
 XX (HELI-) HELIX RES INST.
 XX
 PI Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;
 PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;
 XX
 DR WPI; 2001-524255/58.
 DR N-PSDB; AAK34474.
 PT 830 Primers useful for synthesizing full length cDNA clones and their
 PT use in genetic manipulation -
 PS Claim 8; SEQ ID NO 3297; 1380bp + sequence listing; English.
 XX
 CC The invention relates to primers for synthesizing full length cDNA
 CC clones. 830 cDNA molecules encoding a human protein have been
 CC isolated and nucleotide sequences of 5' and 3' ends of the cDNA
 CC molecules have been determined. Primers for synthesizing the full length
 CC cDNA are useful for clarifying the function of the protein encoded by
 CC the cDNA. The full length clones were obtained by construction of full
 CC length enriched cDNA libraries that were synthesised by the oligo-capping
 CC method. The primers enable the production of the full length cDNA easily
 CC without any special methods. The present sequence is a polypeptide
 CC encoded by a full length human cDNA of the invention.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in CD-ROM format directly from EPO.
 XX
 SQ Sequence 280 AA;
 Query Match 28.0%; Score 352.5; DB 22; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
 QY 1 MODEGYYTINIKRKPAV-----SVGPASSFWRRVALLILICVGVVGLVAGI 53
 Db 11 MLDDDDGTMTSLHSQASATRRPEPRTERHAPSSTWRPVALTLTLCLVLLIGLALGL 70
 QY 54 W-----SYMGRNY-----LQDENENRTGTLQOLAKRRCQYVVQSE 89
 Db 71 LFPQYQJLSTNGQDTISQMEERLQNTSOELQSLQVQNIKLASIQHVAEKLCR-----E 124
 QY 90 LKGTFRKHGKSPCDTNWRYGDSQYGFPRHNLTWESKOYCTDMNALLKIDNNIVEYI 149
 Db 125 LYNKAGAHRCSPCTEQWKMHDNOCYQFYKSKSWEDCKYFCLSENSIMLKINQEDLEFA 184
 QY 150 KARTH---LIRWGLSRQKSNVWKWEDGSVTSSENMEFLD--GKANNACAYFHNGKM 203
 Db 185 ASQSYSEPFYSYWTGLLRPDSGKXALWMDGTPFTSELPHIITVTSRSDCVAILNGMI 244
 QY 204 HPTFCENGHYLMCERKAGTKVDOL 228
 Db 245 FSKDCKELKRCVCERRAGWKPESL 269
 RESULT 28
 AAU12400
 ID AAU12400 standard; Protein; 280 AA.
 AC AAU12400;
 XX
 DT 24-OCT-2001 (first entry)
 XX
 DE Human PRO131 polypeptide sequence.
 XX

KM Human secretory and transmembrane; PRO; mammalian; cancer; lung;
 KM breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
 KM cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
 KM adipocyte; A-peptide; factor VIIa; gene therapy.
 XX
 OS Homo sapiens.
 XX
 XX WO200140466-A2.
 XX
 XX 07-JUN-2001.
 XX
 XX
 PF 01-DEC-2000; 2000WO-US32678.
 XX
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28564.
 PR 02-DEC-1999; 99WO-US28565.
 PR 09-DEC-1999; 99US-0170262.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 20-DEC-1999; 99WO-US30999.
 PR 30-DEC-1999; 99WO-US31243.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 10-NOV-2000; 2000WO-US30873.
 ER
 XX (GERTH) GENENTECH INC.
 PA
 XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W,
 PI Geritsen ME, Goddard A, Godowski RJ, Gurney AL, Sherwood S,
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WT, Zhang Z,
 XX
 DR WPI, 2001-408281/43.
 DR N-PSDB; AAS21472.
 XX
 PT Isolated, secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing
 FT PRO polypeptides, and detect the presence of mammalian tumours e.g.
 FT lung, breast, prostate, cervical
 XX
 PS Claim 12; Fig 458; 813pp; English.
 PS
 XX AAU21272-AAU2446 represent novel human secretory and transmembrane
 CC PRO polypeptides. The PRO polypeptides are useful to detect other
 CC PRO polypeptides, to link bioactive molecules to cells expressing
 CC PRO polypeptides, to modulate biological activities of cells expressing
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
 CC polypeptide expression in a cell sample to that in a control sample.
 CC Some of the 275 sequences are also useful to stimulate the release of
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
 CC proliferation or differentiation of chondrocytes, the proliferation or
 CC gene expression in pericyte cells, the release of proteoglycans from
 CC cartilage, the proliferation of inner ear utricular supporting cells or
 CC of T-lymphocytes, the release of a cytokine from peripheral blood
 CC monocytes (PMCs), or the proliferation of endothelial cells. Some of
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide

CC to factor VIIa. The PRO polypeptides can be used in assays to identify
 CC molecules involved in binding interactions. The polynucleotides encoding
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy.
 XX
 SQ Sequence 260 AA;
 Query Match 28.0%; Score 352.5; DB 22; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2,3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
 QY 1 MODEDGYITLNIKTRKALV-----SYGPASSFWRRWAILLLICVGMVGLVATGI 53
 DB 11 MLDDDDGDTWLSHQASATTRHPDPRTRAPSRVPAVLTLLCLVLLGLAALGL 70
 QY 54 W-----SVQKNY-----LDENENRTGLIQLAKRFGQYVROSE 89
 DB 71 LFFQYQLSNTGDTLSQMERLGNTSQELQSLQVQIKLAGSLQHAETCR-----E 124
 QY 90 LKGTFFKHKSPCDTWRRYVGDSCYGFPRNLTWESKQYCTDMAATLLKIDNNIVYI 149
 DB 125 LYNKAGAHRCSPCTEQKXMGDNCYQPYKDSKSEDCYPCLSNSTLTKINKQEDLEFA 184
 QY 150 KARTH----LIRWGLSRKSNFVWKKEJDSVISEMPEFLD--GKNNMCAYFNHGKM 203
 DB 185 ASQSSSEFFSYNTTGLRDPDSGKALIMDGTPTSTSLFIIDVTSPRSDDCAALNGMI 244
 QY 204 HPTFCENKHYLMCERRAGMTKVQQL 228
 DB 245 FSKDCKELKRCVCERRAGMTKPESTL 269
 RESULT 29
 ID AAB65251 standard; Protein; 280 AA.
 XX
 AC AAB65251;
 XX
 DT 02-APR-2001 (first entry)
 XX
 XX Human PRO1131 (UNQ569) protein sequence SEQ ID NO:319.
 DE
 KM Human; secreted and transmembrane protein; PRO; cytostatic;
 KM cell death; cancer; chromosomal mapping; gene mapping; tissue typing;
 KM diagnostic assay.
 XX
 OS Homo sapiens.
 XX
 PN WO200073454-A1.
 XX
 PD 07-DEC-2000.
 XX
 PF 30-MAR-2000; 2000WO-US08439.
 XX
 PR 02-JUN-1999; 99WO-US12252.
 PR 23-JUN-1999; 99US-0141037.
 PR 07-JUL-1999; 99US-0143048.
 PR 20-JUL-1999; 99US-0144758.
 PR 26-JUL-1999; 99US-0145698.
 PR 28-JUL-1999; 99US-0146222.
 PR 17-AUG-1999; 99US-0149396.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 08-OCT-1999; 99US-0150863.
 PR 30-NOV-1999; 99WO-US28313.
 PR 01-DEC-1999; 99WO-US28301.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 22-FEB-2000; 2000WO-US04414.

PR 24-FEB-2000; 2000MO-US04914.
 PR 24-FEB-2000; 2000MO-US05004.
 PR 02-MAR-2000; 2000MO-US05841.
 PR 15-MAR-2000; 2000MO-US06884.
 PR 20-MAR-2000; 2000MO-US07377.
 XX
 PA (GENTH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Bolstein D, Desnyere L, Eaton DL,
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A,
 PI Grimaldi CU, Gurney AL, Kijavini IU, Napier MA, Pen U, Pooni NP,
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,
 PI Zhang Z;
 DR WPI; 2001-032160/04.
 DR N-PSDB; AAF44218.
 XX
 PT PRO polynucleotides used to produce polypeptides used to target
 PT bioactive molecules such as toxins, radiolabels or antibodies, to
 PT specific cells, to cause targeted cell death -
 PS
 XX Claim 12; Fig 230; 935pp; English.
 CC The present invention describes human secreted and transmembrane PRO
 CC proteins. The PRO proteins have cytostatic activity. The PRO proteins
 CC can be used for targeted delivery of bioactive molecules, such as
 CC toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide
 CC sequences, and their fragments, can be used as hybridization probes, in
 CC chromosomal and gene mapping, and in the generation of anti-sense RNA
 CC and DNA. They may also be used to produce transgenic animals which are
 CC used to develop and screen therapeutically useful reagents. The PRO
 CC nucleotide and protein sequence can be used for tissue typing and in
 CC treating cancer. Anti-PRO antibodies can be used in diagnostic assays.
 CC AAF44270 to AAF44470 represent PCR primers and hybridisation probes used
 CC in the isolation of human PRO sequences. AAF44087 to AAF44269 and
 CC AAF65154 to AAF65300 represent human PRO polynucleotide and protein
 CC sequences given in the exemplification of the present invention.
 CC
 XX
 SQ Sequence 280 AA;
 Query Match 28.0%; Score 352.5; DB 22; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
 QY 1 MODEGYITLNTKTKPALV-----SVGPASSFWWVALLILLCVGMVGVVALGI 53
 DB 11 MDDDDGDTTMSLHSAATTHPRPRRTHAPSPWPAVLTLLTCLVALLIGLAAGL 70
 QY 54 W-----SVQQRNY-----LDENENRTGTLLQALAKRRCQYVVKOSE 89
 DB 71 LFFQYQJLSTNGQDTISQMEERLNTSQELOSICVONIKLAGSLQHVAKICR-----E 124
 QY 90 LKGTFKHKCSPTDNNMYVYSCGCFRHLTWESQYQCDVWATLLKIDNRIVYI 149
 DB 125 LYNKAGARCPCTPOMWBGDNCYQFYKDSKSWDCYFCLSENSTMLKINKQDDLEFA 184
 QY 130 KARTH-----LIRVGLISROKSNVWKMEDGYSIENMEFLED--GKANMCAVYHNKX 203
 DB 165 ASQSISEFFYSYWTLLIPDSKAWLMDGTFTSELPFIIDVTSPPSRDCAVILNGMI 244
 QY 204 HPTFCENKHYLMCCERKAGNTKYDQL 228
 DB 245 FSKDCKELRKVCERRRAGWVKPESTL 269
 XX
 RESULT 30
 ID AAB50959 standard; Protein; 280 AA.
 AC AAB50959;
 XX
 DT 21-MAR-2001 (first entry);
 XX

DS Human PRO1131 protein.
 XX
 KW Human; PRO; cytostatic; neutrotropic; neuroprotective; respiratory general;
 KW antiinflammatory; antiangiogenic; immunosuppressive; immunostimulant;
 KW PRO agonist; cancer; inflammatory disorder; immunological disorder.
 XX
 OS Homo sapiens.
 XX
 PN WO200073348-A2.
 XX
 PD 07-DEC-2000.
 XX
 PF 30-MAY-2000; 2000MO-US14941.
 XX
 PR 02-JUN-1999; 99WO-US12252.
 PR 22-JUN-1999; 99US-0140650.
 PR 23-JUN-1999; 99US-0141037.
 PR 20-JUL-1999; 99US-0144758.
 PR 01-SEP-1999; 99WO-US20111.
 PR 08-SEP-1999; 99WO-US20594.
 PR 29-OCT-1999; 99US-0162506.
 PR 30-NOV-1999; 99WO-US28313.
 PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28551.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30399.
 PR 06-JAN-2000; 2000MO-US03376.
 PR 11-FEB-2000; 2000MO-US03565.
 PR 18-FEB-2000; 2000MO-US04341.
 PR 18-FEB-2000; 2000MO-US04342.
 PR 02-MAR-2000; 2000MO-US05841.
 PR 03-MAR-2000; 2000US-0187202.
 PR 10-MAR-2000; 2000MO-US06319.
 PR 15-MAR-2000; 2000MO-US06884.
 PR 30-MAR-2000; 2000MO-US08439.
 PR 17-MAY-2000; 2000MO-US13705.
 XX
 PA (GENTH) GENENTECH INC.
 XX
 PI Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W, Kabakoff RC,
 PI Shelton DL, Smith V, Watanabe CK, Wood WI;
 DR WPI; 2001-016509/02.
 DR N-PSDB; AAC91561.
 XX
 XX Twenty eight nucleic acids encoding PRO polypeptides which are useful
 PT for treating various tumors, e.g. breast cancer, and other
 PT inflammatory, angiogenic and immunological disorders -
 XX
 PS Claim 31; Fig 18; 188pp; English.
 XX
 XX The present sequence is one of twenty eight novel PRO polypeptides. The
 CC PRO polypeptides and their agonists, including antibodies, peptides, and
 CC small molecule agonists, may be used to treat various tumours, e.g.,
 CC cancers such as breast cancer, ovarian cancer, renal cancer, colorectal
 CC cancer, uterine cancer, prostate cancer, lung cancer, bladder cancer,
 CC central nervous system cancer, melanoma or leukaemia. They are also
 CC useful for treating other disorders such as neuronal, glial, astrocytal,
 CC hypothalamic and other glandular, macrophage, epithelial, stromal and
 CC blastocellic disorders, and inflammatory, angiogenic and immunological
 CC disorders.
 XX
 SQ Sequence 280 AA;
 Query Match 28.0%; Score 352.5; DB 22; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
 QY 1 MODEGYITLNTKTKPALV-----SVGPASSFWWVALLILLCVGMVGVVALGI 53
 DB 11 MDDDDGDTTMSLHSAATTHPRPRRTHAPSPWPAVLTLLTCLVALLIGLAAGL 70
 QY 54 W-----SVQQRNY-----LDENENRTGTLLQALAKRRCQYVVKOSE 89

```

Db      71 LFFQYQLSNTGDTISQWBERIGNTSQELQVONIKLAGSLQVARELCK-----E 124
QY      90 LKGFYGHKSCPDITWRYGDSYGFPRHNLTWESKQYCTDMATLLKIDRNIVEYI 149
      125 LYNKAGAHRCSPTEQWKMGNDYGFYKDSKMEDECKYFCISENSTMKINKQEDLEFA 184
Db      150 KARTH---LIRVGLSRQKSNVWKEDGVSISENMFELD--GKNNNCAYFHNGKM 203
      185 ASQSYSEFFYSYWTGLLRPDSGKAMLMGOTPTSTLPHIITVTSPPSRDCAIINIGMI 244
QY      204 HPTFCENKHYLMGERKAGMTKVQDL 228
Db      245 FSKDCKELKRCVCERRAGWKPESL 269

RESULT 31
ABP64809
ID      ABP64809 standard; Protein; 280 AA.
AC      ABP64809;
XX      25-FEB-2003 (first entry)
DT      XX
DE      Human protein SEQ ID 469.
XX
KW      Human; expressed sequence tag; EST;
KW      haemotopoietic disorder; central nervous system disease; viral infection;
KW      peripheral nervous system disease; non-healing wound; infectious disease;
KW      immune deficiency; immune disorder; bacterial infection; allergy; cancer;
KW      fungal infection; autoimmune disorder; coagulation disorder; neutrotropic;
KW      antiallergic; antinflammatory; immunosuppressive; neuroprotective;
KW      cytostatic; haemostatic; virucide; antibacterial; fungicide;
KW      immunostimulant; cerebroprotective.
XX
OS      Homo sapiens.
XX
PN      WO200259260-A2.
XX
PD      01-AUG-2002.
XX
PF      16-NOV-2001; 2001WO-US42950.
XX
PR      17-NOV-2000; 2000US-0714936.
XX
PA      {HYSE-} HYSEQ INC.
XX
PI      Tang YT, Goodrich RW, Liu C, Zhou P, Asundi V, Zhang C, Zhao Qa;
PI      Ren F, Xue AJ, Yang Y, Weinman T, Drmanac RT;
XX
DR      WPI; 2002-590824/63.
XX
N-PSDB; ABQ99395.
XX
PT      New isolated polynucleotide, useful in research, diagnostic or
PT      therapeutic methods, e.g. preventing or treating disorders involving
PT      aberrant protein expression or biological activity -
XX
Claim 20; SEQ ID 469; 394pp; English.
XX
XX
CC      The present invention relates to novel human coding sequences
CC      (ABQ99368-ABQ99608) and proteins (ABP64682-ABP65022). The sequences are
CC      useful in therapeutic, diagnostic and research methods. The
CC      polynucleotides may be used in the field of molecular biology as
CC      hybridisation probes, primers for PCR, for chromosome and gene mapping,
CC      for the recombinant production of protein, or in generation of anti-sense
CC      DNA or RNA. The polynucleotides are useful in diagnostics as expressed
CC      sequence tags (ESTs) for identifying expressed genes or for physical
CC      mapping of the human genome. The proteins may be used as molecular weight
CC      markers, or as nutritional sources or supplements. The proteins may be
CC      used to maintain and expand cell population in a totipotent or
CC      pluripotent state useful for re-engineering damaged or diseased
CC      tissues, transplantation, manufacture of bio-pharmaceuticals or the
CC      development of bio-sensors. The polynucleotides and proteins are useful

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CC      for preventing, treating or ameliorating disorders involving aberrant
CC      protein expression or biological activity, e.g. haematopoietic disorders,
CC      central/peripheral nervous system diseases, mechanical and traumatic
CC      disorders, non-healing wounds, immune deficiencies and disorders,
CC      infectious diseases caused by viral, bacterial or fungal infection,
CC      autoimmune disorders, allergic reactions and conditions, coagulation
CC      disorders, or cancer. The polynucleotide sequences of the invention were
CC      assembled from ESTs isolated mainly by sequencing by hybridisation, and
CC      in some cases, sequences obtained from one or more public databases.
CC      Note: The sequence data for this patent did not form part of the printed
CC      specification, but was obtained in electronic format directly from WIPO
CC      at ftp.wipo.int/pub/published_pcl_sequences.
XX
SQ      Sequence 280 AA;
XX
Query Match      28.0%; Score 352.5; DB 23; Length 280;
Best local Similarity 29.1%; Pred. No. 2,3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY      1 XODEGTYITLNTKTRPALV-----SYGPPASFWWRMALLILLCYGVWGLWALGI 53
      11 MLDDGDTTMSLHSQASATTRHPEPRTEHRAPSSTWRPALVTLTLVCLVILGLALGL 70
Db      54 W-----SVQGRNY-----LDENENRTGTLQCLAKRFQYVVKOSE 89
QY      71 LFFQYQLSNTGDTISQWBERIGNTSQELQVONIKLAGSLQVARELCK-----E 124
XX
QY      90 LKGFYGHKSCPDITWRYGDSYGFPRHNLTWESKQYCTDMATLLKIDRNIVEYI 149
      125 LYNKAGAHRCSPTEQWKMGNDYGFYKDSKMEDECKYFCISENSTMKINKQEDLEFA 184
Db      150 KARTH---LIRVGLSRQKSNVWKEDGVSISENMFELD--GKNNNCAYFHNGKM 203
      185 ASQSYSEFFYSYWTGLLRPDSGKAMLMGOTPTSTLPHIITVTSPPSRDCAIINIGMI 244
QY      204 HPTFCENKHYLMGERKAGMTKVQDL 228
Db      245 FSKDCKELKRCVCERRAGWKPESL 269

RESULT 32
ABB95505
ID      ABB95505 standard; Protein; 280 AA.
AC      ABB95505;
XX      19-JUL-2002 (first entry)
DT      XX
DE      Human angiogenesis related protein PRO1131 SEQ ID NO: 166.
XX
KW      Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;
KW      atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;
KW      cardiac; cytostatic; antiangiogenic; hypotensive; vulnerary;
KW      antiarteriosclerotic.
XX
OS      Homo sapiens.
XX
PN      WO200208284-A2.
XX
PD      31-JAN-2002.
XX
PF      09-JUL-2001; 2001WO-US21735.
XX
PR      20-JUL-2000; 2000US-219566P.
PR      25-JUL-2000; 2000US-220624P.
PR      25-JUL-2000; 2000US-220664P.
PR      28-JUL-2000; 2000WO-US20710.
PR      02-AUG-2000; 2000US-222695P.
PR      17-AUG-2000; 2000US-0643657.
PR      23-AUG-2000; 2000WO-US23522.
PR      24-AUG-2000; 2000WO-US23328.
PR      07-SEP-2000; 2000US-230978P.
PR      15-SEP-2000; 2000US-000000P.

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PR 18-SEP-2000; 2000US-0664610.
 PR 18-SEP-2000; 2000US-0665350.
 PR 24-OCT-2000; 2000US-242922P.
 PR 08-NOV-2000; 2000US-070923P.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000US-US32678.
 PR 20-DEC-2000; 2000US-0747259.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 22-JAN-2001; 2001US-0767609.
 PR 28-FEB-2001; 2001US-0796498.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US06666.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0808689.
 PR 22-MAR-2001; 2001US-0816744.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0854208.
 PR 10-MAY-2001; 2001US-0854280.
 PR 25-MAY-2001; 2001US-0866028.
 PR 25-MAY-2001; 2001US-0866034.
 PR 25-MAY-2001; 2001WO-US17892.
 PR 30-MAY-2001; 2001US-0870574.
 PR 30-MAY-2001; 2001WO-US17443.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001US-0819692.
 PR 28-JUN-2001; 2001WO-US00000.

XX (GETH) GENENTECH INC.
 PA (BAKE/) BAKER K P.
 PA (FERR/) FERRARA N.
 PA (GERR/) GERBER E.
 PA (GERR/) GERRTSEN X E.
 PA (GODD/) GODDARD A.
 PA (GODO/) GODOWSKI P J.
 PA (GURN/) GURNEY A L.
 PA (HILL/) HILLMAN K J.
 PA (MARS/) MARSTERS S A.
 PA (PANJ/) PAN J.
 PA (PAON/) PAONI N F.
 PA (STEP/) STEPHAN J F.
 PA (WATA/) WATANABE C K.
 PA (WILL/) WILLIAMS P M.
 PA (WOOD/) WOOD W I.

PI Baker KP, Ferrara N, Gerber H, Gerltzen ME, Goddard A;
 PI Godowski PJ, Gurney AL, Hillman KJ, Marsters SA, Pan J, Paoni NF;
 PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;

XX WPI; 2002-171999/22.
 DR N-PSDB; ABL95643.

XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
 FT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
 PT infarction), endothelial or angiogenic disorders in a mammal -

XX Claim 11; Fig 166; 567pp; English.

XX The present invention provides the protein and coding sequences of human
 CC PRO proteins. These are useful for treating or diagnosing a
 CC cardiovascular, endothelial or angiogenic disorder, including cardiac
 CC hypertrophy, trauma, cancer, age-related macular degeneration,
 CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
 CC angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
 CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound
 CC healing. The present sequence is a PRO protein of the invention.

XX Sequence 280 AA;

Query Match 28.0%; Score 352.5; DB 23; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

CY 1 MODEGYITLNIKTRKPAIV-----SVGPASSFWMRVAILILLICVGMVGLVALGI 53
 DB 11 MDDDDGDTWLSHSQSASATRRPRRTERRASSTMRPVALLILLCVLLIGLALGL 70
 CY 54 W-----SYMGRNY-----IQDENENFTGLIQLAKFPCCVYVAKSE 89
 DB 71 LFFGYVYLSNTGDDTLISQMERLQNTSGLQSLOVQNTIKLAGSLQVAEKLCR-----E 124
 CY 90 LKGTFGKHKCSPCDTRRYTGDSCTGFRRNLWESKQVCTMNAITLLINDNNIVEYI 149
 DB 125 LYNKAGAHRCSPCTEOWKMGDNCYQPKDSKSWEDCKYFCLSENSTYLLKINROEDILFA 184
 CY 150 KARTH-----LIRWGLSRKSNVEYWKWEDSVISENFEFLFD--GKANNCAVFNHGM 203
 DB 185 ASQSYSEFFYSYWTGLRPSGKXALMDGTPTSELPHITIDVTSRSDCAVAINQXI 244
 CY 204 HPTFCENKHYLMCKERKAGMTKVDQL 228
 DB 245 FSKDCKELKRCVCERRAGVYKFEEL 269

RESULT 33
 ABB84899
 ID ABB84899 standard; Protein; 280 AA.

XX ABB84899;

DT 16-MAY-2002 (first entry)

XX Human PRO1131 protein sequence SEQ ID NO:166.

XX Human; angiogenesis; cardiac; cytostratic; antiangiogenic; hypotensive;
 KW vulnerary; antiatherosclerotic; PRO agonist; PRO antagonist; trauma;
 KW gene therapy; cardiovascular disorder; endothelial disorder; cancer;
 KW angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
 KW age-related macular degeneration; arterial restenosis; angina;
 KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;
 KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
 KW wound healing; chromosome mapping; gene mapping.

XX Homo sapiens.

XX MO200200690-A2.

PD 03-JAN-2002.

XX 20-JUN-2001; 2001WO-US19692.

XX 23-JUN-2000; 2000US-213637P.

XX 20-JUL-2000; 2000US-219556P.

XX 25-JUL-2000; 2000US-220624P.

XX 25-JUL-2000; 2000US-220664P.

XX 28-JUL-2000; 2000WO-US220710.

XX 02-AUG-2000; 2000US-222695P.

XX 17-AUG-2000; 2000US-064365P.

XX 23-AUG-2000; 2000WO-US23352.

XX 24-AUG-2000; 2000WO-US23328.

XX 07-SEP-2000; 2000US-230978P.

XX 18-SEP-2000; 2000US-0664610.

XX 18-SEP-2000; 2000US-0685350.

XX 24-OCT-2000; 2000US-242922P.

XX 08-NOV-2000; 2000US-070923P.

XX 08-NOV-2000; 2000WO-US30952.
 XX 10-NOV-2000; 2000WO-US30873.
 XX 01-DEC-2000; 2000US-US32678.
 XX 20-DEC-2000; 2000US-0747259.
 XX 20-DEC-2000; 2000WO-US34956.
 XX 22-JAN-2001; 2001US-0767609.
 XX 28-FEB-2001; 2001US-0796498.
 XX 28-FEB-2001; 2001WO-US06520.
 XX 01-MAR-2001; 2001WO-US06666.
 XX 09-MAR-2001; 2001US-0802706.
 XX 14-MAR-2001; 2001US-0808689.

XX		22-MAR-2001; 2001US-0816744.	
PR		05-APR-2001; 2001US-0828366.	
PR		10-MAY-2001; 2001US-0854208.	
PR		10-MAY-2001; 2001US-0854280.	
PR		23-MAY-2001; 2001US-0866028.	
PR		25-MAY-2001; 2001US-0866034.	
PR		25-MAY-2001; 2001WO-US17092.	
PR		30-MAY-2001; 2001US-0870574.	
PR		30-MAY-2001; 2001WO-US17443.	
PR		01-JUN-2001; 2001WO-US17800.	
XX		(GETH) GENENTECH INC.	
XX		Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;	
PI		Goodwin PJ, Gunney AL, Hillan KJ, Marsters SA, Pan J, Paci NF,	
PI		Stephan JF, Watanabe CK, Williams FM, Wood WI, Ye W;	
XX		WPI; 2002-090516/12.	
DR		N-PSDE; AB188154.	
PT		One hundred and eighty seven nucleic acids encoding PRO polypeptides,	
PT		useful in diagnosis and treatment of cardiovascular (e.g. myocardial	
PT		infarction), endothelial or angiogenic disorders in a mammal -	
XX		Claim 11; Fig 16c; 565pp; English.	
CC		AB188072 to AB188258 encode the PRO proteins given in AB188417 to	
CC		AB1885003. The PRO proteins and polynucleotides have cardiant, cytostatic,	
CC		antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic	
CC		activities, and can be used in gene therapy. The PRO polynucleotides,	
CC		proteins, agonists and antagonists are useful for treating or diagnosing	
CC		a cardiovascular, endothelial or angiogenic disorder in a mammal,	
CC		e.g. cardiac hypertrophy, trauma, cancer, age-related macular	
CC		dysgenesis, arteriosclerosis, hypertension, arterial stenosis,	
CC		rheumatoid arthritis, angina, myocardial infarctions, thromboembolitis,	
CC		lymphangitis, tumour angiogenesis (such as breast carcinoma and liver	
CC		carcinoma) and wound healing. The PRO polynucleotides have applications	
CC		in molecular biology, including use as hybridisation probes, and in	
CC		chromosome and gene mapping. AB188259 to AB188267 represent primers and	
CC		probes used in the exemplification of the present invention.	
XX			
SQ	Sequence	280 AA:	
	Query Match	28.0%; Score 352.5; DB 23; Length 280;	
	Best Local Similarity	29.1%; Pred. No.2.3e-27;	
	Matches	77; Conservative 53; Mismatches 92; Indels 43; Gaps 6	
QY	1 MODECGYITINIKTKKRALV-----SYGPASSFWMRMALIILICGVAVGLVALGI	53	
DJ	11 MEDDDGTMTSHSQAATTRHPEPRRTTHRAPSSFTWRVAALTLTLCVILIGLAASL	70	
QY	54 W-----SVWGNY-----LDENENRTGTLLOOLAAFCQYVVKQSE	89	
DJ	71 LEPFYQLSNLTGODPITSQMBERLGNTSOHLQSLQVNITKAISLVHAEKLK-----E	124	
QY	90 LKGTETGAKCSFDCTNWRVYGDSCYGFPPHNLTWEESKOYCTDMANATLIKINRNIVYL	149	
DJ	125 LYNKAGAFRCSPCTBQMKWHGDNICYQFYDSSKWEDCKYFCISENSIMLKINKQEDLEPA	184	
QY	150 KARTE---LIHWGLSRQKSNEVKWKMEGGSVISNMFFLED--GKGMMNCAYFPFMGM	203	
DJ	185 ASQSSEPFYSYWTGLRPDSGAAMLMKDGTFTSELPHIIIDVSFSRSDCAVALLNGYL	244	
QY	204 HPTPCNKHYLMCEKRAKGMTKYDQL	228	
DJ	245 FSKDKELKRCVCERRAAGNVXESL	269	
RESULT 34			
ABU71412			
ID	ABU71412 standard; Protein; 280 AA.		
XX			
AC	ABU71412;		

XX	10-JUN-2003	(First entry)
DT		
XX		
DE	Human Prol131 protein.	
XX		
XX	Human; PRO; secreted; transmembrane; cytosolic; TNF-alpha; blood;	
KM	tumour necrosis factor alpha release; chondrocyte cell; proliferation;	
KM	differentiation; tumour; gene therapy.	
XX		
OS	Homo sapiens.	
XX		
PN	US2003036143-A1.	
XX		
PD	20-FEB-2003.	
XX		
PF	02-JUL-2002; 2002US-0187600.	
XX		
PR	16-SEP-1998; 98WO-US19930.	
PR	07-OCT-1998; 98WO-US21141.	
PR	01-DEC-1998; 98WO-US25108.	
PR	08-MAR-1999; 99WO-US05028.	
PR	14-MAY-1999; 99WO-US10733.	
PR	02-JUN-1999; 99WO-US12252.	
PR	01-SEP-1999; 99WO-US20111.	
PR	13-SEP-1999; 99WO-US21090.	
PR	01-DEC-1999; 99WO-US28301.	
PR	02-DEC-1999; 99WO-US28551.	
PR	30-DEC-1999; 99WO-US31274.	
PR	05-JAN-2000; 2000WO-US00219.	
PR	18-FEB-2000; 2000WO-US04341.	
PR	18-FEB-2000; 2000WO-US04342.	
PR	22-FEB-2000; 2000WO-US04414.	
PR	24-FEB-2000; 2000WO-US05004.	
PR	01-MAR-2000; 2000WO-US05601.	
PR	02-MAR-2000; 2000WO-US05841.	
PR	15-MAR-2000; 2000WO-US06884.	
PR	30-MAR-2000; 2000WO-US09839.	
PR	17-MAY-2000; 2000WO-US33785.	
PR	22-MAY-2000; 2000WO-US14042.	
PR	30-MAY-2000; 2000WO-US14941.	
PR	02-JUN-2000; 2000WO-US15284.	
PR	28-JUL-2000; 2000WO-US20710.	
PR	24-AUG-2000; 2000WO-US23338.	
PR	08-NOV-2000; 2000WO-US30952.	
PR	01-DEC-2000; 2000WO-US32678.	
PR	20-DEC-2000; 2000WO-US34956.	
PR	28-FEB-2001; 2001WO-US06520.	
PR	01-JUN-2001; 2001WO-US17800.	
PR	20-JUN-2001; 2001WO-US19592.	
PR	29-JUL-2001; 2001WO-US21066.	
PR	09-JUL-2001; 2001WO-US21735.	
PR	29-AUG-2001; 2001WO-US27039.	
PR	18-SEP-1997; 97US-059263P.	
PR	18-SEP-1997; 97US-059266P.	
PR	17-OCT-1997; 97US-062250P.	
PR	21-OCT-1997; 97US-063486P.	
PR	24-OCT-1997; 97US-063120P.	
PR	24-OCT-1997; 97US-063121P.	
PR	28-OCT-1997; 97US-063400P.	
PR	28-OCT-1997; 97US-063541P.	
PR	28-OCT-1997; 97US-063544P.	
PR	28-OCT-1997; 97US-063564P.	
PR	29-OCT-1997; 97US-063734P.	
PR	31-OCT-1997; 97US-064870P.	
PR	31-OCT-1997; 97US-064103P.	
PR	13-NOV-1997; 97US-065311P.	
PR	21-NOV-1997; 97US-066120P.	
PR	24-NOV-1997; 97US-066466P.	
PR	11-DEC-1997; 97US-066772P.	
PR	11-DEC-1997; 97US-069335P.	
PR	12-DEC-1997; 97US-069425P.	
PR	17-DEC-1997; 97US-069870P.	
PR	18-DEC-1997; 97US-069817P.	

Db 245 RSKDCKELKRCVCERRAGWKEESL 269

RESULT 35

ABU71425
ID ABU71425 standard; protein; 280 AA.

AC ABU71425;

DT 09-JUN-2003 (first entry)

DE Human neoplasia inhibiting PRO polypeptide PRO1131.

XX Human; tumour; cancer; neoplasia; liver cancer; sarcoma;
XX breast cancer; ovarian cancer; renal cancer; colorectal cancer; melanoma;
XX uterine cancer; prostate cancer; lung cancer; bladder cancer; leukaemia;
XX gastric cancer; pancreatic cancer; vulval cancer; thyroid cancer;
XX central nervous system cancer; hepatic carcinoma; glioblastoma;
XX neuronal disorder; glial disorder; astrocytal disorder;
XX hypochalamic disorder; glandular disorder; macrophagal disorder;
XX epithelial disorder; stromal disorder; blastocoele disorder;
XX inflammatory disorder; angiogenic disorder; immunologic disorder.

OS Homo sapiens.

PN US2002192209-A1.

PD 19-DEC-2002.

PF 30-NOV-2001; 2001US-0001054.

PR 10-SEP-1998; 98WO-US18824.

PR 05-JAN-1999; 99WO-US00106.

PR 08-MAR-1999; 99WO-US05028.

PR 20-APR-1999; 99WO-US08615.

PR 02-JUN-1999; 99WO-US12252.

PR 01-SEP-1999; 99WO-US20111.

PR 08-SEP-1999; 99WO-US20594.

PR 30-NOV-1999; 99WO-US28313.

PR 01-DEC-1999; 99WO-US28634.

PR 02-DEC-1999; 99WO-US28551.

PR 16-DEC-1999; 99WO-US30095.

PR 20-DEC-1999; 99WO-US30999.

PR 06-JAN-2000; 2000WO-US00376.

PR 11-FEB-2000; 2000WO-US03565.

PR 18-FEB-2000; 2000WO-US04341.

PR 18-FEB-2000; 2000WO-US05841.

PR 02-MAR-2000; 2000WO-US06884.

PR 15-MAR-2000; 2000WO-US08439.

PR 30-MAR-2000; 2000WO-US13705.

PR 22-MAY-2000; 2000WO-US14042.

PR 30-MAY-2000; 2000WO-US14941.

PR 02-JUN-2000; 2000WO-US15264.

PR 11-AUG-2000; 2000WO-US22031.

PR 02-JUN-1998; 98US-087607P.
PR 11-JUN-1998; 98US-088858P.
PR 25-JUN-1998; 98US-090691P.
PR 17-AUG-1998; 98US-096891P.
PR 17-AUG-1998; 98US-096894P.
PR 10-SEP-1998; 98US-099803P.
PR 14-SEP-1998; 98US-100263P.
PR 15-SEP-1998; 98US-100390P.
PR 23-SEP-1998; 98US-101476P.
PR 10-NOV-1998; 98US-107783P.
PR 18-NOV-1998; 98US-108849P.
PR 15-DEC-1998; 98US-112420P.
PR 22-DEC-1998; 98US-113296P.
PR 12-JAN-1999; 98US-115554P.
PR 12-JAN-1999; 98US-115558P.
PR 20-JAN-1999; 98US-116533P.
PR 10-MAR-1999; 98US-123618P.
PR 27-APR-1999; 98US-131294P.
PR 22-JUN-1999; 98US-140650P.
PR 23-JUN-1999; 98US-141037P.
PR 20-JUL-1999; 98US-144758P.
PR 29-OCT-1999; 98US-162506P.
PR 09-DEC-1999; 98US-170262P.
PR 03-MAR-2000; 2000US-187202P.
PR 19-NOV-1998; 98US-0180997.
PR 22-DEC-1998; 98US-0218517.
PR 12-APR-1999; 98US-0284291.
PR 12-APR-1999; 98US-0380137.
PR 25-AUG-1999; 98US-0380138.
PR 09-SEP-1999; 98US-0380913.
PR 18-OCT-1999; 98US-0403297.
PR 10-NOV-1999; 98US-0423741.
PR 08-NOV-2000; 2000US-0709238.
PR 09-MAR-2001; 2001US-0802706.
PR 25-MAY-2001; 2001US-0866034.
PR 01-JUN-2001; 2001US-0872035.
PR 01-JUN-2001; 2001US-0872035.
PR 14-JUN-2001; 2001US-0882636.
PR 30-JUL-2001; 2001US-0919585.
PR 06-AUG-2001; 2001US-0924419.
PR 09-AUG-2001; 2001US-0927796.
PR 13-AUG-2001; 2001US-0929404.
PR 28-AUG-2001; 2001US-0941592.
PR 04-SEP-2001; 2001US-0946374.

XX (GENENTECH INC.

BA Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W, Kabakoff RC;

PI Shelton DJ, Smith V, Watanabe CK, Wood WI;

XX WPI: 2003-328851/31.

DR N-PSDS; ACA57998.

PT Novel isolated PRO polypeptides e.g. PRO240, PRO381, PRO540, useful for

PT treating tumor, preferably cancer, or for treating neuronal, glial,

PT hypochalamic, stromal, inflammatory, angiogenic and immunologic

PT disorders -

PT disorders -

PT disorders -

PT disorders -

PT disorders -

PT disorders -

PT disorders -

PT disorders -

Claim 32, Fig 18; 186pp; English.

The invention relates to an isolated secreted and transmembrane polypeptide, designated as PRO polypeptide, PRO polypeptide lacking its associated signal peptide or PRO polypeptide extracellular domain with or without its associated signal peptide. The PRO polypeptide or an antibody binding to it is useful for inhibiting the growth of a tumor cell. A composition containing a PRO polypeptide is useful for inhibiting neoplastic cell growth or for treating a tumour, preferably cancer (such as liver, breast, ovarian, renal, colorectal, uterine, prostate, lung, bladder, gastric, pancreatic, vulval, thyroid, central nervous system cancer, hepatic carcinoma, sarcoma, glioblastoma, melanoma or leukaemia) in a mammal. The PRO polypeptide is useful for identifying its agonists. The PRO polypeptide or an antibody binding to it is useful in the preparation of a medicament for treating a condition which is

CC responsive to the PRO polypeptide or an antibody binding to it. The PRO
CC polypeptide or an antibody binding to it is also useful for treating
CC neuronal, glial, astrocytic, hypothalamic, glandular, macrophagal,
CC epithelial, stromal, blastocoeleic, inflammatory, angiogenic and
CC immunologic disorders. The present sequence represents the amino acid
CC sequence of a PRO polypeptide of the invention.

XX Sequence 280 AA;

SQ Query Match 28.0%; Score 352.5; DB 24; Length 280;

Best Local Similarity 29.1%; Pred. No. 2,3e-27;

Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MQDEGVTINIKRKALV-----SVGPASSFWKRVALLILICVGNVGLVALGI 53

Db 11 MDDDDGTWLSHQASATTPRPERPRTERAPSTTRPVALLITLCTVLILGLAALGL 70

QY 54 W-----SVGMQNTY-----LQDENENTGTLLQQLAKRFGQYVYKQSE 89

Db 71 LPFOYGLSTGQDTISQMEERLGNISQELQSLQVQNKIKLAGSQQHYAEKLCR-----E 124

QY 90 LKGTFKGHKCSPCDTNWRVYDSCYGFPRHNLTWESKQYCTDMATILKIDNNIVEYI 149

Db 125 LYNKAGAHRCSPCTGQMKWHEGDNICYQFYKSKSWEDCKYFCLSENSTYMLKINKQEDLEFA 184

QY 150 KARTH---LIRWGLSRQKSNFVKWEDGSVISNNFEPLED--GKNNMCATFHNGKM 203

Db 185 ASQSYSEFFYSYWTGLLRPDGKAWLMDGTFPTSELPHITIDTSPRSRCYALINGMI 244

QY 204 HPTFCENGHYLMCRKAGMTKVDOL 228

Db 245 FSKDCKELKRCVCRRAQWVPESL 269

RESULT 36

ABU65869

AC ABU65869;

DT 19-MAY-2003 (first entry)

DE Human secreted/transmembrane protein, SEQ ID 602.

XX Human, PRO; secreted protein; transmembrane protein;

KW cytoskeletal; antiarthritic; osteopathic; adrenal tumour; lung tumour;

KW colon tumour; breast tumour; prostate tumour; rectal tumour;

KW cervical tumour; liver tumour; TNF-alpha release; arthritis;

KW tumour necrosis factor alpha; chondrocyte cell; bone disorder;

KW cartilage disorder; sports injury.

XX Homo sapiens.

OS US2003036156-A1.

PN 20-FEB-2003.

XX 02-JUL-2002; 2002US-0188767.

XX 16-SEP-1998; 98WO-US19330.

PR 07-OCT-1998; 98WO-US21141.

PR 01-DEC-1998; 98WO-US25108.

PR 08-MAR-1999; 99WO-US05028.

PR 14-MAY-1999; 99WO-US10733.

PR 01-SEP-1999; 99WO-US20111.

PR 15-SEP-1999; 99WO-US21090.

PR 01-DEC-1999; 99WO-US28301.

PR 02-DEC-1999; 99WO-US31274.

PR 30-DEC-1999; 99WO-US31274.

PR 05-JAN-2000; 2000WO-US00219.

PR 18-FEB-2000; 2000WO-US04341.

PR 18-FEB-2000; 2000WO-US04342.

PR 22-FEB-2000; 2000WO-US04414.

PR 24-FEB-2000; 2000WO-US05004.

PR 01-MAR-2000; 2000WO-US05601.

PR 02-MAR-2000; 2000WO-US05841.

PR 15-MAR-2000; 2000WO-US06884.

PR 30-MAR-2000; 2000WO-US08439.

PR 17-MAY-2000; 2000WO-US13705.

PR 22-MAY-2000; 2000WO-US14042.

PR 30-MAY-2000; 2000WO-US14941.

PR 02-JUN-2000; 2000WO-US15264.

PR 28-JUL-2000; 2000WO-US20710.

PR 24-AUG-2000; 2000WO-US23328.

PR 08-NOV-2000; 2000WO-US30952.

PR 01-DEC-2000; 2000WO-US32678.

PR 20-DEC-2000; 2000WO-US34956.

PR 28-FEB-2001; 2001WO-US06520.

PR 01-JUN-2001; 2001WO-US17800.

PR 20-JUN-2001; 2001WO-US19692.

PR 29-JUN-2001; 2001WO-US21066.

PR 09-JUL-2001; 2001WO-US21735.

PR 29-AUG-2001; 2001WO-US27099.

PR 18-SEP-1997; 97US-05283P.

PR 18-SEP-1997; 97US-05283P.

PR 17-OCT-1997; 97US-062250P.

PR 21-OCT-1997; 97US-063486P.

PR 24-OCT-1997; 97US-063120P.

PR 24-OCT-1997; 97US-063112P.

PR 28-OCT-1997; 97US-063540P.

PR 28-OCT-1997; 97US-063541P.

PR 28-OCT-1997; 97US-063544P.

PR 28-OCT-1997; 97US-063564P.

PR 29-OCT-1997; 97US-063734P.

PR 31-OCT-1997; 97US-063870P.

PR 31-OCT-1997; 97US-064103P.

PR 13-NOV-1997; 97US-065311P.

PR 21-NOV-1997; 97US-066120P.

PR 24-NOV-1997; 97US-066466P.

PR 24-NOV-1997; 97US-066772P.

PR 11-DEC-1997; 97US-069335P.

PR 12-DEC-1997; 97US-069425P.

PR 17-DEC-1997; 97US-069870P.

PR 18-DEC-1997; 97US-068017P.

PR 10-MAR-1998; 98US-077450P.

PR 11-MAR-1998; 98US-077632P.

PR 11-MAR-1998; 98US-077649P.

PR 20-MAR-1998; 98US-078866P.

PR 27-MAR-1998; 98US-079939P.

PR 27-MAR-1998; 98US-079664P.

PR 31-MAR-1998; 98US-079786P.

PR 31-MAR-1998; 98US-080194P.

PR 01-APR-1998; 98US-080327P.

PR 01-APR-1998; 98US-080333P.

PR 08-APR-1998; 98US-081049P.

PR 08-APR-1998; 98US-081070P.

PR 09-APR-1998; 98US-081195P.

PR 21-APR-1998; 98US-081838P.

PR 21-APR-1998; 98US-082568P.

PR 21-APR-1998; 98US-082569P.

PR 22-APR-1998; 98US-082704P.

PR 22-APR-1998; 98US-082797P.

PR 28-APR-1998; 98US-083122P.

PR 29-APR-1998; 98US-083495P.

PR 29-APR-1998; 98US-083496P.

PR 29-APR-1998; 98US-083499P.

PR 29-APR-1998; 98US-083559P.

PR 05-MAY-1998; 98US-084466P.

PR 06-MAY-1998; 98US-084414P.

PR 07-MAY-1998; 98US-084639P.

PR 07-MAY-1998; 98US-084640P.

PR 07-MAY-1998; 98US-084643P.

PR 15-MAY-1998; 98US-085579P.

PR 15-MAY-1998; 98US-085580P.

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PR 15-MAY-1998; 98US-085592P
PR 15-MAY-1998; 98US-0857002
PR 18-MAY-1998; 98US-086023P
PR 22-MAY-1998; 98US-086392P
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PR 28-MAY-1998; 98US-087098P
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PR 02-JUN-1998; 98US-087609P
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PR 03-JUN-1998; 98US-087827P
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PR 24-JUN-1998; 98US-090429P
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PR 26-JUN-1998; 98US-091010P
PR 01-JUL-1998; 98US-091359P
PR 01-JUL-1998; 98US-091544P
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PR 02-JUL-1998; 98US-091486P
PR 02-JUL-1998; 98US-091626P
PR 02-JUL-1998; 98US-091628P
PR 02-JUL-1998; 98US-091632P
PR 02-JUL-1998; 98US-091636P
PR 04-AUG-1998; 98US-095282P
PR 04-AUG-1998; 98US-095288P
PR 10-AUG-1998; 98US-096012P
PR 10-AUG-1998; 98US-096517P
PR 17-AUG-1998; 98US-096766P
PR 17-AUG-1998; 98US-096867P
PR 17-AUG-1998; 98US-096891P

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PR 17-AUG-1998; 98US-096897P
PR 18-AUG-1998; 98US-096899P
PR 18-AUG-1998; 98US-096899P
PR 18-AUG-1998; 98US-097022P
PR 26-AUG-1998; 98US-097952P
PR 26-AUG-1998; 98US-097954P
PR 26-AUG-1998; 98US-097955P
PR 26-AUG-1998; 98US-097955P
PR 26-AUG-1998; 98US-097971P
PR 26-AUG-1998; 98US-098014P
PR 26-AUG-1998; 98US-098114P
PR 01-SEP-1998; 98US-098716P
PR 01-SEP-1998; 98US-098723P
PR 02-SEP-1998; 98US-098803P
PR 02-SEP-1998; 98US-098821P
PR 02-SEP-1998; 98US-098843P
PR 09-SEP-1998; 98US-098602P
PR 10-SEP-1998; 98US-099741P

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Query Match 28.0%; Score 352.5; DB 24; Length 280;
Best Local Similarity 29.1%; Pred. No. 2,3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

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QY 1 MDEDCYITINIKTRKPAIV-----SVGPASSFWRRVMAILLILICVAMVGLVLSI 53
DB 11 MLDDDDDTMTSLHSQASATTRHPRPRTRHAPSSTWRPVALLTLICVILGLALGL 70
QY 54 W-----SVQGRNY-----IODENENRTGTLQOLAKKFCQYVWKSE 89
DB 71 LFFQYQLSNTGDTISOMEERLGNISQELQIVONIKLAGSLQVHAERKCR-----E 124
QY 90 LKGTFRGKCSPODIWRYRYSYSDSCYGFRRHNLTWBSSKQYCTDMAATLLKIDRNVLEYI 149
DB 125 LYNKAGAHRCSPCTEQKWHGDCNICYQYKDSKEMEDCKYCLSENS-TMKIKNOEDIEFA 184
QY 150 KARTH---LIRVVGSRQKSNFVWKVEDSVISENFEZLEP--GKGNMCAVFPHNGM 203
DB 185 ASQSYSEFFYSYWTGLIRPDSGXAMLMDGTPTPTSELFHIIIVTSPRSBDCAVAILNGKI 244
QY 204 HPTFCENKHYLMCCERKAGMTKVDQL 228
DB 245 FSKDCKALKRCVCERRAGVYKPSL 269

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RESULT 37
ABU66202
ID ABU66202 standard; Protein; 280 AA.
XX AC ABU66202;
XX DT 20-MAY-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO113-.
XX KM Human; secreted protein; transmembrane protein; cytosolic;
XX KW gene therapy; TNF-Agonist-Alpha; chondrocyte stimulator; tumour;
XX KM adrenal tumour; lung tumour; colon tumour; breast tumour;
XX KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX OS Homo sapiens.
XX XX US2003036157-A1.
XX PN 20-FEB-2003.
XX PD 20-FEB-2003.
XX XX 02-JUL-2002; 2002US-0188769.
XX PF
XX XX 16-SEP-1998; 98WO-US19330.
XX XX 07-OCT-1998; 98WO-US21141.
XX XX 01-DEC-1998; 98WO-US25108.
XX XX 08-MAR-1999; 99WO-US05028.
XX XX 14-MAY-1999; 99WO-US10733.
XX XX 02-JUN-1999; 99WO-US12252.
XX XX 01-SEP-1999; 99WO-US20111.

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PR 15-SEP-1999; 99WO-US21090.
PR 01-DEC-1999; 99WO-US28501.
PR 02-DEC-1999; 99WO-US28551.
PR 30-DEC-1999; 99WO-US31274.
PR 05-JAN-2000; 2000WO-US00219.
PR 18-FEB-2000; 2000WO-US04341.
PR 18-FEB-2000; 2000WO-US04442.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US05004.
PR 01-MAR-2000; 2000WO-US05601.
PR 02-MAR-2000; 2000WO-US05841.
PR 15-MAR-2000; 2000WO-US06884.
PR 30-MAR-2000; 2000WO-US09839.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14942.
PR 30-MAY-2000; 2000WO-US15264.
PR 02-JUN-2000; 2000WO-US15264.
PR 28-JUL-2000; 2000WO-US20710.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.
PR 28-FEB-2001; 2001WO-US06520.
PR 01-JUN-2001; 2001WO-US17800.
PR 20-JUN-2001; 2001WO-US19692.
PR 29-JUN-2001; 2001WO-US21066.
PR 09-JUL-2001; 2001WO-US21755.
PR 29-AUG-2001; 2001WO-US27099.
PR 18-SEP-1997; 97US-059263P.
PR 18-SEP-1997; 97US-059263P.
PR 17-OCT-1997; 97US-062250P.
PR 21-OCT-1997; 97US-063486P.
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PR 10-SEP-1998; 98US-099754P.  
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Best Local Similarity 29.1%; Pred. No. 2,3e-27;  
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QY 90 LKGFPGKHGKSPCTTNRYIGDSCYGFPHNLITWESKQCYTDMNLILKIDNNIYEYI 149  
Db 125 LYNKAGARCSPTCEQWKMGHDNCYQFYKSKSWEDCKYFCLSENSITLKNKQEDLEFA 184  
QY 150 KARTH---LIRWVGLRQKSNBYWKMEDGVSINNFEPLED--GKNNMCAYFHHGKM 203  
Db 185 ASQYSSTFYRYTGLRPDSGKALMMDGTPFTSELPHIIDIYTSRSPDCAIILNGMI 244  
QY 204 HPTFCENKHYLMCKRKAQMTKVDQI 228  
Db 245 FSKCKEIKRCVCERRAGMVKPESL 269
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RESULT 38  
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ID ABU66798 standard; Protein; 280 AA.
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XX AC ABU66798;
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XX DT 23-MAY-2003 (first entry)
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XX DE Human PRO polypeptide #229.
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XX KW Human: PRO polypeptide; secreted and transmembrane protein;
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XX KW tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;
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XX KW differentiation; chondrocyte; tumour; genetic disorder;
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XX KW cytosolic.
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XX OS Homo sapiens.
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XX PN US2003036180-A1.
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XX PD 20-FEB-2003.
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PF 09-MAY-2002; 2002US-0143114.  
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PR 12-JUN-1998; 98WO-US12456.  
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PR 11-FEB-2000; 2000WO-US03585.  
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PR 08-NOV-2000; 2000WO-US30952.  
PR 10-NOV-2000; 2000WO-US30873.  
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PR 20-DEC-2000; 2000WO-US34956.  
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PR 22-DEC-1999; 99WO-US30720.
PR 30-DEC-1999; 99WO-US31243.
PR 30-DEC-1999; 99WO-US31274.
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PR 24-FEB-2000; 2000WO-US05004.
PR 01-MAR-2000; 2000WO-US05601.
PR 02-MAR-2000; 2000WO-US05745.
PR 02-MAR-2000; 2000WO-US05841.
PR 10-MAR-2000; 2000WO-US06319.
PR 15-MAR-2000; 2000WO-US06884.
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PR 16-AUG-2001; 2001US-0931836.
PR 19-DEC-2001; 2001US-0028072.

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(GETH) GENENTECH INC.

Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W,

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PI Geritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CX, Wood WI, Zhang Z;
XX WPI; 2003-331925/31.
DR N-PSDS; ACA04252.
XX
XX New secreted and transmembrane nucleic acids and polypeptides,
PT designated as PRO, useful for treating inflammation, organ failure,
PT atherosclerosis, cardiac injury, infertility, birth defects, premature
PT aging, AIDS, or cancer
XX
XX Claim 12; Fig 458; 659pp; English.
XX
XX The invention relates to an isolated nucleic acid comprising, or which is
CC at least 80% identical to, or the full-length coding sequence of, any of
CC the 275 nucleotide sequences, encoding the corresponding PRO polypeptide
CC (one of 275 secreted or transmembrane proteins). The nucleic acid
CC further comprises the full-length coding sequence of the DNA deposited
CC under American Type Culture Collection (ATCC) accession number in a list
CC given in the specification. Also included are vectors and host
CC cells for producing PRO proteins, PRO fusion proteins, anti-PRO
CC antibodies, PRO extracellular domains and mature sequences, methods
CC of detecting PRO proteins, methods for stimulating the release of
CC TNF-alpha (tumour necrosis factor alpha) from human blood,
CC (and the proliferation of differentiation of chondrocyte cells, the
CC proliferation of, or gene expression in pericyte cells, the release or
CC proteoglycans from cartilage, proliferation of inner ear utricular
CC supporting cells, the proliferation of T-lymphocyte cells, the release
CC of cytokine from peripheral blood mononuclear cells (PBMC), or the
CC proliferation of endothelial cells), a method for modulating the uptake
CC of glucose or free fatty acid (FFA) by skeletal muscle cells,
CC a method for inhibiting the binding of A-peptide to factor VIIa,
CC or the differentiation of adipocyte cells, a method for detecting the
CC presence of a tumour in a mammal and an oligonucleotide probe derived
CC from any of the nucleotide sequences cited above. The nucleic acids and
CC polypeptides are useful for treating inflammatory diseases, organ
CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
CC premature aging, AIDS (acquired immunodeficiency syndrome), cancer, or
CC diabetic complications. The nucleic acids are useful as hybridisation
CC probes, in chromosome and gene mapping, and in generating antisense RNA
CC or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,
CC biosensors or bioreactors. Both are useful in tissue typing.
XX
XX The present sequence represents a PRO protein of the invention.
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Query Match 28.0%; Score 352.5; DB 24; Length 280;
Best Local Similarity 29.1%; Pred. No. 2.3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
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DB 125 LYNKAGARCSPPQVQWHDNCCYFKDSKSWEDCKYFGLSENSTMLKINKGDELFPA 184
QY 150 KARTH---LIRWGLSRQKSGNEVWKEDGSVISENMFPLED--GKGNMCAVFNHGM 203
DB 185 ASQVSEFFYSYMTGLRPSDGKXMKWMDGPRFSELPHITIDYSPRSQCVAILNGMI 244
QY 204 HPTFCENKHYIMCERKAGNTVVDI 228
DB 245 FSKDCKELKRCVCERRAGVYKPESL 269

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RESULT 40
ABU67706

ID AB067706 standard; Protein; 280 AA.
 AC AB067706;
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 DT 23-MAY-2003 (first entry)
 XX
 DE Human secreted/transmembrane protein (PRO) #301.
 XX
 KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
 KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
 KW tissue typing.
 XX
 OS Homo sapiens.
 XX
 PN US2003036162-A1.
 XX
 PD 20-FEB-2003.
 XX
 PF 12-JUL-2002; 2002US-0194423.
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 PR 16-SEP-1998; 98WO-US19330.
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 PR 02-DEC-1999; 99WO-US28551.
 PR 30-DEC-1999; 99WO-US31274.
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 PR 18-FEB-2000; 2000WO-US04341.
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 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 15-MAR-2000; 2000WO-US06884.
 PR 30-MAR-2000; 2000WO-US08439.
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 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
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 PR 08-NOV-2000; 2000US-0709238.
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 PR 30-JUL-2001; 2001US-0918585.
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 PR 13-AUG-2001; 2001US-0925404.
 PR 16-AUG-2001; 2001US-0931836.
 PR 28-AUG-2001; 2001US-0941992.
 PR 04-SEP-2001; 2001US-0946374.
 PR 15-JAN-2002; 2002US-0052586.
 XX
 2A (GENTH) GENENTECH INC.
 PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski P, Gurney AL,
 PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z,
 XX
 DR MPI; 2003-332039/31.
 DR N-PSDB; ACAA06000.
 XX
 PT New secreted and transmembrane PRO polypeptides and nucleic acids,
 PT useful in gene therapy, in chromosome and gene mapping, as chromosome
 PT markers, in tissue typing, and in chromosome identification
 XX
 PS Claim 11, Fig 602; 706pp; English.
 XX
 CC The invention discloses human nucleic acids encoding secreted and
 CC transmembrane (PRO) polypeptides. Also disclosed is an antibody that
 CC specifically binds to the PRO polypeptide, a method for stimulating the
 CC release of tumour necrosis factor alpha (TNF-alpha) from human blood by
 CC contacting the blood a PRO polypeptide, a method for stimulating the
 CC proliferation or differentiation of chondrocyte cells by contacting the
 CC cells with a PRO polypeptide, a method for detecting the presence of the
 CC tumour in a mammal and an oligonucleotide probe derived from any of the
 CC PRO nucleotide sequences. The nucleotide sequences are useful as probes,
 CC in chromosome and gene mapping, in generating antisense RNA and DNA, in
 CC preparing PRO polypeptides by recombinant techniques and in gene therapy
 CC (e.g. for replacement of defective gene). The PRO polypeptides are useful
 CC as molecular weight markers for protein electrophoresis purposes, for
 CC chromosome identification, as chromosome markers, as therapeutic agents,
 CC for stimulating the release of TNF-alpha from human blood, for
 CC stimulating the proliferation or differentiation of chondrocytes and
 CC detecting the presence of a tumour. The PRO polypeptides and nucleic
 CC acids may also be used diagnostically for tissue typing. The sequences
 CC presented in AB067406-AB067710 are the PRO polypeptides of the invention.
 XX
 SQ Sequence 280 AA;
 Query Match 28.0%; Score 352.5; DB 24; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
 QY 1 MDEDDGTTNTIKTRKRLV-----SVGRASSFWRMVLLILLCVGVVGLVLLGI 53
 DB 11 MLDDDDGTTWLSHQAATTRHPRRTERRAPSTWPEVALLTLTLVLLVLLGLAAGL 70
 QY 54 W-----SWQKNY-----LDENENRFTGTLQOLAKRPOYVVKSE 89
 DB 71 LFFQYQLSTNGQDTISMERLIGTSOELQSLQVQNIKLKAGSLQHVAVKLCR-----E 124
 QY 90 LKGTFGKHKSGPDTNWRYYGDSYGFPRNLTWESKQYCTDMNATLLKIDNRNIVYI 149
 DB 125 LYNKAGAHRCSPTEQWKGHDNCYQFYKDSKSWEDCKYFCLSENSYMLKINKQEDLEFA 184
 QY 150 KARTH-----LIRVGLSPQKNENWVKMDEGVSISNMFEPED--GKNMNCVAPHNKM 203
 DB 185 ASQSYSEFPYISYWTLLRPDSGKAWLMDGIPFTSELHIIIDVSPSRQCVALLNMI 244
 QY 204 HPTFCNKHYLMCEKAKMTYVDL 228
 DB 245 PSKDKELKRCVCEHRAQWVKESE 269

RESULT 41
 ID ABUS9879 standard; Protein; 280 AA.
 XX
 AC ABUS9879;
 XX
 DT 13-MAY-2003 (first entry)
 XX
 DE Novel secreted and transmembrane protein PRO1131.
 KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
 KW cardiac insufficiency disorder; cancer; tumour; immune response;
 KW adrenal cortical capillary endothelial growth; c-fos induction;
 KW vascular endothelial growth factor inhibition; VEGF inhibition;
 KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
 KW retinal neurons cell survival; rod photoreceptor cell survival;
 KW retinal disorder; retinitis pigmentosa; kidney disorder;
 KW mammalian kidney mesangial cell proliferation; Berger disease;
 KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
 KW chondrocyte redifferentiation; sports injury; arthritis.
 XX
 OS Homo sapiens.
 XX
 PN US2003017563-A1.
 XX
 PD 23-JAN-2003.
 XX
 PE 07-MAY-2002; 2002US-0140808.
 XX
 PR 31-MAR-1997; 97WO-US05230.
 PR 12-JUN-1998; 98WO-US12456.
 PR 14-JUL-1998; 98WO-US14552.
 PR 28-AUG-1998; 98WO-US17888.
 PR 10-SEP-1998; 98WO-US18824.
 PR 14-SEP-1998; 98WO-US19093.
 PR 14-SEP-1998; 98WO-US19094.
 PR 14-SEP-1998; 98WO-US19177.
 PR 16-SEP-1998; 98WO-US19330.
 PR 17-SEP-1998; 98WO-US19437.
 PR 07-OCT-1998; 98WO-US21141.
 PR 29-OCT-1998; 98WO-US22991.
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 PR 20-NOV-1998; 98WO-US24855.
 PR 01-DEC-1998; 98WO-US25108.
 PR 05-JAN-1999; 99WO-US00106.
 PR 08-MAR-1999; 99WO-US05028.
 PR 10-MAR-1999; 99WO-US05190.
 PR 20-APR-1999; 99WO-US08615.
 PR 14-MAY-1999; 99WO-US10733.
 PR 02-JUN-1999; 99WO-US12252.
 PR 01-SEP-1999; 99WO-US20111.
 PR 08-SEP-1999; 99WO-US20594.
 PR 13-SEP-1999; 99WO-US20944.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 05-OCT-1999; 99WO-US23089.
 PR 29-NOV-1999; 99WO-US28214.
 PR 30-NOV-1999; 99WO-US28313.
 PR 30-NOV-1999; 99WO-US28409.
 PR 01-DEC-1999; 99WO-US28301.
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 PR 20-DEC-1999; 99WO-US30911.
 PR 22-DEC-1999; 99WO-US30720.
 PR 30-DEC-1999; 99WO-US31243.
 PR 30-DEC-1999; 99WO-US31274.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00277.

PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05746.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 10-MAR-2000; 2000WO-US06319.
 PR 15-MAR-2000; 2000WO-US06884.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 11-AUG-2000; 2000WO-US22031.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23528.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US06666.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 22-JUN-2001; 2001WO-US20116.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 20-DEC-2000; 2000US-C747259.
 PR 28-FEB-2001; 2001US-C796498.
 PR 03-MAR-2001; 2001US-C0802706.
 PR 14-MAR-2001; 2001US-C080889.
 PR 22-MAR-2001; 2001US-C0816744.
 PR 03-APR-2001; 2001US-C0828366.
 PR 10-MAY-2001; 2001US-C0854208.
 PR 10-MAY-2001; 2001US-C0854280.
 PR 18-MAY-2001; 2001US-C0860216.
 PR 25-MAY-2001; 2001US-C0866028.
 PR 25-MAY-2001; 2001US-C0866034.
 PR 01-JUN-2001; 2001US-C0872035.
 PR 14-JUN-2001; 2001US-C0874503.
 PR 14-JUN-2001; 2001US-C0882636.
 PR 19-JUN-2001; 2001US-C0886342.
 PR 21-JUN-2001; 2001US-C0887879.
 PR 15-JUL-2001; 2001US-C0908827.
 PR 06-AUG-2001; 2001US-C0924419.
 PR 09-AUG-2001; 2001US-C0927796.
 PR 16-AUG-2001; 2001US-C0931836.
 PR 19-DEC-2001; 2001US-C0028072.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerlisen ME, Goddard A, Godowski PJ, Garney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX
 DR WPI; 2003-148236/14.
 DR N-PSDB; AEX89369.
 XX
 PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
 PT are therapeutically useful for enhancing immune response and in cancer
 PT treatments -
 XX
 PS Claim 12; Fig 45b; 659pp; English.
 XX

CC The invention describes an isolated human PRO polypeptide. The PRO
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
 CC in modulating at least one biological activity of a cell expressing a PRO
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
 CC stimulate adrenal cortical capillary endothelial growth, and PRO536,
 CC PRO943, PRO828, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
 CC PRO1360 and PRO1387 induce C-fos in endothelial cells, and are thus
 CC useful for treating conditions or disorders where angiogenesis would be
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are
 CC useful for treating cancers tumours. PRO812 inhibits vascular
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
 CC cells and is thus useful for inhibiting endothelial cell growth in
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
 CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing
 CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
 CC rod photoreceptor cells) and therefore are useful for treating retinal
 CC disorders of injuries, e.g. retinitis pigmentosum, AMD, PRO819, PRO813
 CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,
 CC and therefore are useful for treating kidney disorders associated with
 CC decreased mesangial cell function such as Berger disease or Crohn's
 CC nephropathies associated with dermatitis, herpeticiformis or Crohn's
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
 CC proliferation and/or redifferentiation of chondrocytes in culture and
 CC are thus useful for treating sports injuries, and arthritis. This
 CC is the amino acid sequence of a novel human PRO protein.

XX Sequence 280 AA;

Query Match 28.0%; Score 352.5; DB 24; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MODEDGTITNITKRRALV-----SVGPASSFFWRWVALLILICVGVVGLVGLGI 53
 DB 11 MLDDGDTWLSHQASATRRHPRTREHAPSTRPVALLILICVGLVGLLGLALGL 70
 QY 54 W-----SVGNRY-----LDENENRGTGLQQLAKRFCCQVYVYKQSE 89
 DB 71 LFFPYQLSNTGDTTISQMEHRLNLTSGEQLQVQITKLASGLQVHAEKLCR-----E 124
 QY 90 LKGTFGKHKCSPCDTNRYVYDSCYGFPRHNLWESKQYCTDNATLLKIDNRIVEYI 149
 DB 125 LYNVAGAHRCSPCTEQWKMHDNCGYFYXSKSWEDCYFCLSENSTMLKLNQEDLEFA 184
 QY 150 KAPTH---LIRWGLSQRKSNRYWKWEDGSVISNNMFLED--GKNNMCAYFHNKGM 203
 DB 185 ASQSYSEFFYSYVWGLLRPDGSKAWLWDGPFTESEPHITLIVTSPRSRCVALINGMI 244
 QY 204 HPTFCENKHYLMCEKXAGMTYVDL 228
 DB 245 PSKCKELKRCVCERRAAGNVPESS 269

RESULT 42
 ABU65564

ID ABU65564 standard; Protein; 280 AA.

XX ABU65564;

DT 16-MAY-2003 (first entry)

XX Human PRO polypeptide #301.

XX Human, PRO, cytosolic; chromosome mapping; gene mapping;

KW protein electrophoresis; tumour necrosis factor alpha; TNF-alpha; blood;

KX chondrocyte differentiation; chondrocyte proliferation; tumour.

OS Homo sapiens.

XX

PN US2003032102-A1.
 XX 13-FEB-2003.
 PD 17-JUN-2002; 2002US-0173697.
 XX 16-SEP-1998; 99WO-US19330.
 XX 07-OCT-1998; 98WO-US21141.
 XX 01-DEC-1998; 98WO-US22108.
 XX 08-MAR-1999; 99WO-US05028.
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 XX 02-JUN-1999; 99WO-US12252.
 XX 01-SEP-1999; 99WO-US20111.
 XX 15-SEP-1999; 99WO-US21090.
 XX 01-DEC-1999; 99WO-US28301.
 XX 02-DEC-1999; 99WO-US28551.
 XX 30-DEC-1999; 99WO-US31274.
 XX 05-JAN-2000; 2000WO-US00219.
 XX 18-FEB-2000; 2000WO-US04342.
 XX 22-FEB-2000; 2000WO-US04414.
 XX 24-FEB-2000; 2000WO-US05004.
 XX 01-MAR-2000; 2000WO-US05601.
 XX 02-MAR-2000; 2000WO-US05841.
 XX 15-MAR-2000; 2000WO-US06884.
 XX 30-MAR-2000; 2000WO-US08439.
 XX 17-MAY-2000; 2000WO-US13705.
 XX 22-MAY-2000; 2000WO-US14042.
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 XX 28-JUL-2000; 2000WO-US20710.
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 XX 08-NOV-2000; 2000WO-US30952.
 XX 01-DEC-2000; 2000WO-US32578.
 XX 20-DEC-2000; 2000WO-US34556.
 XX 28-FEB-2001; 2001WO-US06520.
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 XX 20-JUN-2001; 2001WO-US19692.
 XX 28-JUN-2001; 2001WO-US21066.
 XX 09-JUL-2001; 2001WO-US21735.
 XX 29-AUG-2001; 2001WO-US27099.
 XX 18-SEP-1997; 97US-059263P.
 XX 18-SEP-1997; 97US-059266P.
 XX 17-OCT-1997; 97US-062250P.
 XX 21-OCT-1997; 97US-063486P.
 XX 24-OCT-1997; 97US-063120P.
 XX 24-OCT-1997; 97US-063121P.
 XX 28-OCT-1997; 97US-063540P.
 XX 28-OCT-1997; 97US-063541P.
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 XX 29-OCT-1997; 97US-063734P.
 XX 31-OCT-1997; 97US-063870P.
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 XX 21-NOV-1997; 97US-065312P.
 XX 24-NOV-1997; 97US-066466P.
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 XX 11-DEC-1997; 97US-069335P.
 XX 12-DEC-1997; 97US-069425P.
 XX 17-DEC-1997; 97US-069870P.
 XX 18-DEC-1997; 97US-069817P.
 XX 10-MAR-1998; 98US-077450P.
 XX 11-MAR-1998; 98US-077632P.
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 XX 20-MAR-1998; 98US-078886P.
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 XX 01-APR-1998; 98US-080333P.

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PR 25-JUN-1998; 98US-090694P.

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PR 10-SEP-1998; 98US-099763P.
PR 10-SEP-1998; 98US-099812P.

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Query Match 28.0%; Score 352.5; DB 24; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

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QY 1 MDEDCGTTTLNKRKALV-----SVGPASSFWRWALLILICVGNVGLVALGI 53
DB 11 MEDDDGDTWLSHQASATTRHPEPRTEHRAFPSSITWRPVALLTLCLVLLIGLAAGL 70
QY 54 W-----SVMOQNY-----LQDENENRTGTQOLAKRPGCYVVKQSE 89
DB 71 LFFGYQLSNTGDTTICQEFRLNGTSGEIQSLQVQIKAGSLQHYAEKLCR-----E 124
QY 90 LKGTFFKHKSPCDTNRRYYGDSGCGFFRNLTWESKQYCTDNNAITLKIDNNIYEYI 149
DB 125 LYNKAGAHRCSPCTBQKWKHGDNCYQYKXSKSWEDCKYFCLSENSTMLKINKQEDLEFA 184
QY 150 KAKTH---LIRWGLSRQKSNRYWKEDDSVLSANKFFELPD--GKANNCAAFHNKGM 203
DB 185 ASQGSSEFFYSYWGILRPDSGKAWLMWDGTFPTSELFIITIDVSPRSRDCVAILNGMI 244
QY 204 HPTFCENKHYLMCEKRAKMTKVDL 228
DB 245 FSKDCKELKRCYCGERRAGMKVPESL 269

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RESULT 43
 ABUS9144
 ID ABUS9144 standard; Protein; 280 AA.
 XX AC ABUS9144;
 XX DT 28-APR-2003 (first entry)

XX DE Novel human secreted or transmembrane protein PRO131.
 XX XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
 KW cardiac insufficiency disorder; cancer; tumor; immune response;
 KW adrenal cortical capillary endothelial growth; c-fos induction;
 KW vascular endothelial growth factor inhibition; VEGF inhibition;
 KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
 KW retinal neurons cell survival; rod photoreceptor cell survival;
 KW retinal disorder; retinitis pigmentosa; kidney disease;
 KW mammalian kidney mesangial cell proliferation; Berger disease;
 KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
 KW chondrocyte redifferentiation; sports injury; arthritis.
 XX OS Homo sapiens.
 XX PN US2002132252-A1.
 XX PD 19-SEP-2002.
 XX PF 14-NOV-2001; 2001US-0990442.
 XX XX 05-NOV-1997; 97WO-US20069.
 PR 16-SEP-1998; 98WO-US19330.
 PR 17-SEP-1998; 98WO-US19437.
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 PR 01-DEC-1998; 98WO-US25106.
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 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 06-JAN-2000; 2000WO-US00219.
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 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 02-MAR-2000; 2000WO-US05004.
 PR 02-MAR-2000; 2000WO-US05841.
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 PR 20-MAR-2000; 2000WO-US07377.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 15-MAY-2000; 2000WO-US13358.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 11-AUG-2000; 2000WO-US20331.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23928.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 16-JUN-1997; 97US-049787P.
 PR 17-OCT-1997; 97US-062250P.
 PR 12-NOV-1997; 97US-065186P.
 PR 13-NOV-1997; 97US-065311P.
 PR 24-NOV-1997; 97US-066710P.
 PR 25-FEB-1998; 98US-073945P.
 PR 20-MAR-1998; 98US-078910P.
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PR 07-MAY-1998; 98US-084600P.
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 PR 11-JUN-1998; 98US-088858P.
 PR 11-JUN-1998; 98US-088861P.
 PR 11-JUN-1998; 98US-088876P.
 PR 12-JUN-1998; 98US-089105P.
 PR 16-JUN-1998; 98US-089440P.
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 PR 17-JUN-1998; 98US-089653P.
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 PR 18-JUN-1998; 98US-089907P.
 PR 18-JUN-1998; 98US-089908P.
 PR 28-AUG-2001; 2001US-0941992.
 XX (GENTH) GENENTECH INC.
 XX PA Ashtkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 XX PI Ferrara N, Fong S, Gerber H, Gertsen ME, Goddard A, Godowski PJ;
 XX PI Grimaldi UC, Garney AL, Kljavin LJ, Napier MA, Pan C, Paoni NF;
 XX PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams FM, Wood WI,
 XX PI Zhang Z;
 XX WPI: 2003-247083/24.
 XX DR N-BSDB, ABX80325.
 XX XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
 XX PT are therapeutically useful for enhancing immune response and in cancer
 XX PT treatments -
 XX Claim 12; Fig 230; 64pp; English.
 XX PS The invention describes an isolated human PRO polypeptide. The PRO
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
 CC in modulating at least one biological activity of a cell expressing a PRO
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
 CC stimulate adrenal cortical capillary endothelial growth and PRO536,
 CC PRO433, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
 CC useful for treating conditions or disorders where angiogenesis would be
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are
 CC useful for treating cancerous tumours. PRO812 inhibits vascular

endothelial growth factor (VEGF) stimulated proliferation of endothelial cells and is thus useful for inhibiting endothelial cell growth in mammals which would be beneficial in inhibiting tumor growth. PRO826, PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of stimulated T-lymphocytes and are therapeutically useful for enhancing immune response. PRO828, PRO826, PRO1068 or PRO1372 enhance survival of retinal neurons cells (PRO112 is also enhances survival/proliferation of rod photoreceptor cells) and therefore are useful for treating retinal disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813 and PRO1066 induce proliferation of mammalian kidney mesangial cells, and therefore are useful for treating kidney disorders associated with decreased mesangial cell function such as Berger disease or other nephropathies associated with dermatitis, herpeticiformis or Crohn's disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the proliferation and/or redifferentiation of chondrocytes in culture and are thus useful for treating sports injuries, and arthritis. This is the amino acid sequence of a novel human PRO protein.

Sequence 280 AA;

Query Match 28.0%, Score 352.5; DB: 24; Length 280;
Best local similarity 29.1%; Pred. No. 2.3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

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Db 11 MLDGGDTWLSHSQASATTHPRPRRTREHAPSTYRPVALTLLTLCVLITGLALGL 70
   |||||.....:|||||:|||||:|||||:|||||:|||||:
QY 54 W-----SYMGRNY-----LQDENENRTGLQQLAKRFQGVVYKSE 89
   |||||.....:|||||:|||||:|||||:|||||:|||||:
Db 71 LFFGYQLSNTGQPTISGMERLIGNTSGELSLQVQNKLAGSLQHVAEKLCR-----F 124
   |||||.....:|||||:|||||:|||||:|||||:|||||:
QY 90 LKGTFFKHKSGPCTDMRRYRDSCYGFPRANLTPWESQVCTDMANLTLKIDNIVAYI 149
   |||||.....:|||||:|||||:|||||:|||||:|||||:
Db 125 LYNAGAHRCSPCTEOWTGHGNCYQFYKDSKSWEDCKYFCLSENSTMLKINKQEDLEFA 134
   |||||.....:|||||:|||||:|||||:|||||:|||||:
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Db 185 ASQSTSEFFYSYWTGLRPPDGGKALWMDGTFPTSELHIIIVTSPRSRCVALINGMT 244
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RESULT 44

ABU59291
ID ABU59291 standard; Protein; 280 AA.

XX AC ABU59291;

XX DT 22-APR-2003 (first entry)

XX XX Human secreted/transmembrane protein, #112.

XX XX Human; PRO; secreted; transmembrane; pharmaceutical;

KW diagnostic; biosensor; bioreactor; tumour; therapeutic;

KW gene therapy; tumour-associated antigenic target; TAT; ADEPT;

XX KW antibody-dependent enzyme mediated prodrug therapy; cytostatic.

OS Homo sapiens.

XX XX US2003027162-A1.

XX PD 06-FEB-2003.

XX PF 15-NOV-2001; 2001US-0997428.

XX PR 05-NOV-1997; 97WO-US20069.

PR 16-SEP-1998; 98WO-US19930.

PR 17-SEP-1998; 98WO-US19937.

PR 07-OCT-1998; 98WO-US21141.

PR 01-DEC-1998; 98WO-US25108.

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PR 05-JAN-1999; 99WO-US00106.
PR 08-MAR-1999; 99WO-US00528.
PR 02-JUN-1999; 99WO-US12252.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US28301.
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PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US00365.
PR 18-FEB-2000; 2000WO-US04431.
PR 22-FEB-2000; 2000WO-US04414.
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PR 24-FEB-2000; 2000WO-US05004.
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PR 23-JUN-1999; 99US-141037P.

Query Match 28.0%; Score 352.5; DB 24; Length 280;
Best Local Similarity 29.1%; Pred. No. 2.3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

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QY 54 W-----SVQNRNY-----IQDENENRGTQLAKRCQVVQSE 89
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DB 71 LFFQYQLSTGDTISQMERLQNTSQELOSLOVQNTKAGSLQHVAKRCKR-----S 124
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QY 90 LKGTFGKQSPCDTNRRYVDSCYGFFRHLTWESKQVCTDMNATLTKIDNNIVYI 149
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 125 LYNKAGARCSPTCEQMKWHDNCYQFKQSKXWEDCKYPTLSNSTYTKINQEDLEFA 184
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 150 KARTH---LIRVGLSRQSNVEVKKWEDGVISENNFSEED--GKNMNCATPHNGM 203
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DB 185 ASQSYSEFFYSYWTGLRFPDQKXAMLMWDGPTSELPHIIDVTSRPSRDCAALINGMI 244
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QY 204 HPTFCENKHYLMCKRKAQMTVDOL 228
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DB 245 FSKDCKELKRCVCERRRAGNVAPBSL 269
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RESULT 45
ID ABUS9440 standard; Protein; 280 AA.
XX ABUS9440;
XX 22-APR-2003 (first entry)
DE Novel human secreted or transmembrane protein PRO1281.
XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
XX cardiac insufficiency disorder; cancer; tumour; immune response;
XX adrenal cortical capillary endothelial growth; c-Fos induction;
XX vascular endothelial growth factor inhibition; VEGF inhibition;
XX endothelial cell growth inhibitor; T-lymphocytes stimulation;
XX retinal neurons cell survival; rod photoreceptor cell survival;
XX retinal disorder; retinitis pigmentosa; kidney disorder;
XX mammalian kidney mesangial cell proliferation; Berger disease;
XX dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;

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KM chondrocyte redifferentiation; sports injury; arthritis.
XX Homo sapiens.
XX US2003027985-A1.
XX
PD 06-FEB-2003.
XX
PF 14-NOV-2001; 2001US-0990562.
XX
PR 05-NOV-1997; 97WO-US20069.
PR 16-SEP-1998; 98WO-US19330.
PR 17-SEP-1998; 98WO-US19437.
PR 07-OCT-1998; 98WO-US21141.
PR 01-DEC-1998; 98WO-US25108.
PR 05-JAN-1999; 99WO-US00106.
PR 08-MAR-1999; 99WO-US05028.
PR 02-JUN-1999; 99WO-US12252.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US28301.
PR 01-DEC-1999; 99WO-US28634.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00316.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04341.
PR 24-FEB-2000; 2000WO-US05004.
PR 24-FEB-2000; 2000WO-US05004.
PR 02-MAR-2000; 2000WO-US05941.
PR 10-MAR-2000; 2000WO-US06319.
PR 15-MAR-2000; 2000WO-US06884.
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PR 08-NOV-2000; 2000WO-US20952.
PR 01-DEC-2000; 2000WO-US32678.
PR 28-FEB-2001; 2001WO-US06520.
PR 01-JUN-2001; 2001WO-US17800.
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PR 09-JUL-2001; 2001WO-US21735.
PR 16-JUN-1997; 97US-049787P.
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Query Match 28.0%; Score 352.5; DB 24; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

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RESULT 46
 AB060575
 ID AB060575 standard; Protein; 280 AA.
 AC AB060575;
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 XX 01-MAY-2003 (first entry)
 XX Human secreted/transmembrane protein, #132.
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XN Human; PRO; secreted; transmembrane; signal peptide;
XN pharmaceutical; diagnostic; therapeutic; gene therapy.
XX Homo sapiens.
OS
PN US2002160384-A1.
XX
PD 31-OCT-2002.
XX
PF 14-NOV-2001; 2001US-0992598.
XX
PR 05-NOV-1997; 97WO-US20069.
PR 16-SEP-1998; 96WO-US15330.
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 PR 18-JUN-1998; 98US-089907P.
 PR 18-JUN-1998; 98US-089908P.
 PR 28-AUG-2001; 2001US-0941992.

XX (GERTH) GENENTECH INC.

PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers J, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gierltsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
 PI Zhang Z;

XX WPI, 2003-288106/28.
 DR N-PSDE; ABX90303.

XX New transmembrane polypeptides and nucleic acids encoding the
 PT polypeptides, useful in gene therapy, in chromosome identification, as
 PT chromosome markers, or in generating probes -
 PS Claim 12; Fig 230; 650P; English.

XX The invention discloses isolated PRO secreted/transmembrane polypeptides
 CC comprising a sequence without signal peptide and the nucleic acid
 CC encoding them. The polypeptides can be used to raise antibodies that
 CC specifically bind to the PRO polypeptide, for linking a bioactive
 CC molecule to a cell expressing a PRO protein and for modulating at least
 CC one biological activity of a cell. The PRO polypeptides or
 CC polynucleotides are also useful in gene therapy, in chromosome
 CC identification, as chromosome markers, or in generating probes. The PRO
 CC polypeptides are useful as molecular markers for protein
 CC electrophoresis, and the isolated nucleic acids may be used for
 CC recombinantly expressing those markers. The PRO polypeptides and nucleic
 CC acids may also be used in tissue typing. Anti-PRO antibodies are useful
 CC in diagnostic assays for PRO, and in affinity purification of PRO from
 CC recombinant cell culture or natural sources. The sequences presented in
 CC ABU60478-ABU60624 are the PRO polynucleotides of the invention.
 CC Note: The sequence data for this patent is also available in electronic
 CC format from USPTO at seqdata.uspto.gov/sequence.html.

XX Sequence 280 AA;

Query Match 28 0%; Score 352.5; DB 24; Length 280;
 Best Local Similarity 29.1%; Pred. No. 2,3e-27;
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

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 QY 90 LKGTFKHCKSPCDITWRRYVYDSCYGFPHNLWESKQYCTDMNATILKIDRNIVEYI 149
 Db 125 LYNKAGNRCSPTCEQKMHGDNICYQYKDSKSNEDCKYCLSENSIMLNQEDLEFA 184
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 Db 185 ASQSYSEFFYSYWTGLRDPGKAWLMMDGTPFTSELFIIIDVTSRSDCVAILNGMI 244
 QY 204 HPTFCENKHYLMGERKAGMTKVDL 228
 Db 245 FSKDCKRLKRCVCERRAGMTKPESL 269

RESULT 47
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 ID ABUS8066 standard; Protein; 280 AA.
 AC ABUS8066;
 DT 14-APR-2003 (first entry)
 XX Human PRO polypeptide #98.
 DE Human PRO polypeptide #98.
 XX Human; PRO; cytosolic; tumour; cancer; breast; lung; stomach; liver;
 KM horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
 KM antibody-dependent enzyme mediated produg therapy.
 OS Homo sapiens.
 XX US2003027163-A1.
 PN 06-FEB-2003.
 PD 15-NOV-2001; 2001US-0997666.
 PF 05-NOV-1997; 97WO-US20069.
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 PR 08-MAR-1999; 99WO-US05028.
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 PR 22-FEB-2000; 2000WO-US04414.
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PR 23-JUN-1998; 98US-090355P.
PR 24-JUN-1998; 98US-090429P.
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Query Match 28.0%; Score 352.5; DA 24; Length 280;
Best Local Similarity 29.1%; Pred. No. 2,3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

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QY 54 W-----SVWGRNY-----LQDENENRGTLOQAKRFGQYVVKQSE 89
Db 71 LFFQYQYLSNTGQDITISQMERLQNTSDELQSLQVQNTLQSLQVAVKLCR-----E 124
QY 90 LKGTIRGKHKSPCDTNNAYYDSCYGFPHNTTWESKQYCTDNATLTKIDNRNIVEYI 149
Db 125 LYNKGAHRCSPCTQWKGWHDNICYQFYKDSKSWEDCKYFCLSENSTYLNKKGEDLEFA 184
QY 150 KAPTH---LIRWGLSPQKSNVWKWEDGYSISNMFLELD--GKGNMCAVPHNGKM 203
Db 155 ASQSTSEFFYSYWTGLRPPDSGKAWLMDGTFPTSELPHIILDVTSPPSRDCVATLNGMI 244
QY 204 HPTPCNKHYLMCEKRAKGTKYDOL 228
Db 245 FSKDCXELKRCYCERRAGVWPESL 259

RESULT 48

ABUS8700
ID ABUS8700 standard; Protein; 280 AA.

AC ABUS8700;

DT 15-APR-2003 (first entry)

XX Human PRO polypeptide #101.

XX Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach;
XX liver; dog; cat; cow; horse; sheep; pig; goat; rabbit; ADAPT;
XX antibody-dependent enzyme mediated prodruing therapy.

XX Homo sapiens.

PN US2003027272-A1.

PD 06-FEB-2003.

PF 21-JUN-2002; 2002US-0176492.

PR 16-SEP-1998; 98WO-US19330.

PR 07-OCT-1998; 98WO-US21141.

PR 01-DEC-1998; 98WO-US25108.

PR 08-MAR-1999; 99WO-US05028.

PR 13-MAR-1999; 99WO-US05190.

PR 14-MAY-1999; 99WO-US10733.

PR 02-JUN-1999; 99WO-US12252.

PR 01-SEP-1999; 99WO-US20111.

PR 15-SEP-1999; 99WO-US21090.

PR 30-NOV-1999; 99WO-US26313.

PR 02-DEC-1999; 99WO-US28551.

PR 30-DEC-1999; 99WO-US31274.

PR 05-JAN-2000; 2000WO-US00219.

PR 18-FEB-2000; 2000WO-US04341.

PR 18-FEB-2000; 2000WO-US04342.

PR 22-FEB-2000; 2000WO-US04414.

PR 24-FEB-2000; 2000WO-US05004.

PR 01-MAR-2000; 2000WO-US05601.

PR 02-MAR-2000; 2000WO-US05841.

PR 10-MAR-2000; 2000WO-US06319.

PR 15-MAR-2000; 2000WO-US06884.
PR 30-MAR-2000; 2000WO-US08439.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 28-JUL-2000; 2000WO-US20710.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 10-NOV-2000; 2000WO-US30873.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.
PR 28-FEB-2001; 2001WO-US06520.
PR 01-JUN-2001; 2001WO-US17800.
PR 20-JUN-2001; 2001WO-US19692.
PR 29-JUN-2001; 2001WO-US21066.
PR 09-JUL-2001; 2001WO-US21735.
PR 18-SEP-1997; 97US-059263P.
PR 18-SEP-1997; 97US-059266P.
PR 17-OCT-1997; 97US-062250P.
PR 21-OCT-1997; 97US-063486P.
PR 24-OCT-1997; 97US-063120P.
PR 28-OCT-1997; 97US-063121P.
PR 28-OCT-1997; 97US-063540P.
PR 28-OCT-1997; 97US-063541P.
PR 28-OCT-1997; 97US-063544P.
PR 28-OCT-1997; 97US-063564P.
PR 29-OCT-1997; 97US-063734P.
PR 31-OCT-1997; 97US-063870P.
PR 31-OCT-1997; 97US-064103P.
PR 13-NOV-1997; 97US-065311P.
PR 21-NOV-1997; 97US-066120P.
PR 24-NOV-1997; 97US-066466P.
PR 24-NOV-1997; 97US-066772P.
PR 11-DEC-1997; 97US-069335P.
PR 12-DEC-1997; 97US-069425P.
PR 17-DEC-1997; 97US-069870P.
PR 18-DEC-1997; 97US-068017P.
PR 10-MAR-1998; 98US-077450P.
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PR 01-APR-1998; 98US-080327P.
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PR 05-MAY-1998; 98US-084366P.
PR 06-MAY-1998; 98US-084414P.
PR 07-MAY-1998; 98US-084639P.
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PR 15-MAY-1998; 98US-085575P.
PR 15-MAY-1998; 98US-085580P.
PR 15-MAY-1998; 98US-085582P.
PR 15-MAY-1998; 98US-085700P.
PR 18-MAY-1998; 98US-086023P.
PR 22-MAY-1998; 98US-086392P.


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PR 22-MAY-1998; 98US-086486P.
PR 28-MAY-1998; 98US-087098P.
PR 28-MAY-1998; 98US-087208P.
PR 02-JUN-1998; 98US-087609P.
PR 02-JUN-1998; 98US-087659P.
PR 03-JUN-1998; 98US-087827P.
PR 04-JUN-1998; 98US-088025P.
PR 04-JUN-1998; 98US-088028P.
PR 04-JUN-1998; 98US-088029P.
PR 04-JUN-1998; 98US-088032P.
PR 04-JUN-1998; 98US-088033P.
PR 05-JUN-1998; 98US-088326P.
PR 05-JUN-1998; 98US-088167P.
PR 05-JUN-1998; 98US-088203P.
PR 05-JUN-1998; 98US-088212P.
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PR 09-JUN-1998; 98US-088655P.
PR 10-JUN-1998; 98US-088722P.
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PR 10-JUN-1998; 98US-088826P.
PR 11-JUN-1998; 98US-088861P.
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PR 11-JUN-1998; 98US-088876P.
PR 12-JUN-1998; 98US-089090P.
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PR 18-JUN-1998; 98US-089908P.
PR 19-JUN-1998; 98US-089952P.
PR 22-JUN-1998; 98US-090246P.
PR 22-JUN-1998; 98US-090252P.
PR 24-JUN-1998; 98US-090429P.
PR 24-JUN-1998; 98US-090435P.
PR 24-JUN-1998; 98US-090444P.
PR 24-JUN-1998; 98US-090461P.
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PR 24-JUN-1998; 98US-090540P.
PR 25-JUN-1998; 98US-090676P.
PR 25-JUN-1998; 98US-090678P.
PR 25-JUN-1998; 98US-090688P.
PR 25-JUN-1998; 98US-090690P.
PR 25-JUN-1998; 98US-090694P.
PR 25-JUN-1998; 98US-090695P.
PR 26-JUN-1998; 98US-090696P.
PR 26-JUN-1998; 98US-090862P.
PR 26-JUN-1998; 98US-090863P.
PR 26-JUN-1998; 98US-091010P.
PR 01-JUL-1998; 98US-091359P.
PR 01-JUL-1998; 98US-091544P.
PR 02-JUL-1998; 98US-091478P.
PR 02-JUL-1998; 98US-091486P.
PR 02-JUL-1998; 98US-091626P.
PR 02-JUL-1998; 98US-091628P.
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PR 24-JUL-1998; 98US-094006P.
PR 04-AUG-1998; 98US-095282P.
PR 10-AUG-1998; 98US-095998P.
PR 10-AUG-1998; 98US-096012P.
PR 17-AUG-1998; 98US-096757P.
PR 17-AUG-1998; 98US-096766P.
PR 17-AUG-1998; 98US-096867P.
PR 17-AUG-1998; 98US-096891P.
PR 17-AUG-1998; 98US-096897P.
PR 18-AUG-1998; 98US-096949P.
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PR 26-AUG-1998; 98US-097954P.
PR 26-AUG-1998; 98US-097955P.
PR 26-AUG-1998; 98US-097971P.
PR 26-AUG-1998; 98US-097974P.
PR 26-AUG-1998; 98US-098014P.
PR 01-SEP-1998; 98US-098016P.
PR 01-SEP-1998; 98US-098716P.
PR 01-SEP-1998; 98US-098723P.
PR 02-SEP-1998; 98US-098803P.
PR 02-SEP-1998; 98US-098821P.
PR 02-SEP-1998; 98US-098843P.
PR 09-SEP-1998; 98US-099602P.
PR 10-SEP-1998; 98US-099741P.

Query Match      28.0%; Score 352.5; DB 24; Length 280;
Best Local Similarity 29.1%; Pred. No. 2,3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MDEDEGVTINITNTRKPEALV-----SVGPASSFWRRVALLILLICGMYGVIALGI 53
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 11 MDDDDDTTWSLHSQASATTRHEPRRTTEHRAESTWRVALLITLITLITLIGLALGL 70
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 54 W-----SVGNQNY-----LDENENRGTGLLOQLAKRFQGVKQSE 89
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 71 LFFQYQLSNTGQDTISQHEERLGNTSQELQISQVQNIKLAGSLQVARELCR-----E 124
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 90 LKGTFFKHKSCPDITWRYRGSCYGFRRHNLTWESKQYCTDMNATLKIDNRNIVEYI 149
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 125 LYNKAGAHRCSPCTEQKWHGDCNYQFYKSKSWEDECKYCLSENSTMLKINKQEDLEFA 184
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 150 KARTH----LIRVWGISROKSNVWKREDSVASEMFEELP--GKNVNCAYFHHNGM 203
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 185 ASQSISEFFSYVTGLLRPSGKAMLDSTPRTSLFHIITVTSFRSHDCAVILNGMI 244
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 204 HPTFCENKHYLMCEKRAKMTKVQQL 228
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 245 FSKDCKELKRCVCERRAQMVKPESL 269
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RESULT 49
ABUS8997
ID ABUS8997 standard; Protein; 280 AA.
XX
AC ABUS8997;
XX
DT 16-APR-2003 (first entry)
XX
DE Human secreted/transmembrane protein, #132.
XX
KW Human; PRO; secreted; transmembrane; signal peptide;
KW pharmaceutical; diagnostic; biosensor; bioreactor; tumour; therapeutic;
KW colon cancer; lung cancer; breast cancer; cancer; gene therapy.
XX
OS Homo sapiens.
XX
PN US2002142961-A1.
XX
PD 03-OCT-2002.
XX
PF 19-NOV-2001; 2001US-0989721.
XX
PR 05-NOV-1997; 97WO-US20069.
PR 17-SEP-1998; 98WO-US19437.
PR 07-OCT-1998; 98WO-US21141.
PR 01-DEC-1998; 98WO-US25108.
PR 05-JUN-1999; 99WO-US00106.
PR 08-MAR-1999; 99WO-US05028.
PR 02-JUN-1999; 99WO-US12252.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US28301.
PR 01-DEC-1999; 99WO-US28634.

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PR 16-DEC-1999; 39WO-US30035
PR 20-DEC-1999; 39WO-US30911
PR 05-JAN-2000; 200OWO-US000219
PR 06-JUN-2000; 200OWO-US00376
PR 11-FEB-2000; 200OWO-US03565
PR 18-FEB-2000; 200OWO-US04341
PR 22-FEB-2000; 200OWO-US04914
PR 24-FEB-2000; 200OWO-US04914
PR 02-MAR-2000; 200OWO-US05804
PR 10-MAR-2000; 200OWO-US05841
PR 15-MAR-2000; 200OWO-US06319
PR 20-MAR-2000; 200OWO-US07377
PR 30-MAR-2000; 200OWO-US08439
PR 15-MAY-2000; 200OWO-US13358
PR 17-MAY-2000; 200OWO-US13705
PR 22-MAY-2000; 200OWO-US14042
PR 30-MAY-2000; 200OWO-US14941
PR 02-JUN-2000; 200OWO-US15264
PR 28-JUL-2000; 200OWO-US20710
PR 11-AUG-2000; 200OWO-US202031
PR 23-AUG-2000; 200OWO-US23352
PR 24-AUG-2000; 200OWO-US23358
PR 08-NOV-2000; 200OWO-US30952
PR 01-DEC-2000; 200OWO-US32678
PR 28-FEB-2001; 2001WO-US06520
PR 01-JUN-2001; 2001WO-US17800
PR 20-JUN-2001; 2001WO-US19692
PR 29-JUL-2001; 2001WO-US21066
PR 09-JUL-2001; 2001WO-US21775
PR 16-JUN-1997; 97US-049787P
PR 17-OCT-1997; 97US-062250P
PR 12-NOV-1997; 97US-065186P
PR 13-NOV-1997; 97US-065311P
PR 24-NOV-1997; 97US-066770P
PR 25-FEB-1998; 98US-075949P
PR 20-MAR-1998; 98US-078101P
PR 28-APR-1998; 98US-083322P
PR 07-MAY-1998; 98US-084600P
PR 28-MAY-1998; 98US-087106P
PR 02-JUN-1998; 98US-087607P
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PR 03-JUN-1998; 98US-087827P
PR 04-JUN-1998; 98US-088021P
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PR 04-JUN-1998; 98US-088030P
PR 04-JUN-1998; 98US-088033P
PR 04-JUN-1998; 98US-088326P
PR 05-JUN-1998; 98US-088167P
PR 05-JUN-1998; 98US-088202P
PR 05-JUN-1998; 98US-088212P
PR 05-JUN-1998; 98US-088217P
PR 05-JUN-1998; 98US-088655P
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PR 10-JUN-1998; 98US-088738P
PR 10-JUN-1998; 98US-088742P
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PR 11-JUN-1998; 98US-088832P
PR 11-JUN-1998; 98US-088861P
PR 11-JUN-1998; 98US-088876P
PR 12-JUN-1998; 98US-089105P
PR 16-JUN-1998; 98US-089440P
PR 16-JUN-1998; 98US-089512P
PR 16-JUN-1998; 98US-089514P
PR 17-JUN-1998; 98US-089532P
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17-JUN-1998; 98US-089599P
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17-JUN-1998; 98US-089653P
18-JUN-1998; 98US-089801P
18-JUN-1998; 98US-089807P
18-JUN-1998; 98US-089908P
28-AUG-2001; 2001US-0941992.

(GENT) GENENTECH INC.
Askkenazi AJ, Baker KP, Bostein D, Desnyers L, Eton DL,
Ferrara N, Fong S, Gerber H, Gertsen ME, Goddard A, Gotowski PJ,
Grimaldi UC, Garney AL, Kilavin UT, Napier MA, Pan J, Poon NF,
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,
Zhang Z;
WPI, 2003-155950/15.
New secreted and transmembrane PRO polypeptides (e.g. PRO183, PRO184,
PRO361 or PRO846) useful as targets for therapeutic intervention in
cancers (e.g. lung or breast cancers), or for diagnosing these cancers

Claim 12; Fig 230; 647pp; English.
The invention discloses isolated PRO secreted/transmembrane polypeptides
comprising a sequence without signal peptide and the nucleic acid
encoding them. The polypeptides can be used to raise antibodies that
specifically bind to the PRO polypeptide, for linking a bioactive
molecule to a cell expressing a PRO protein and for modulating at least
one biological activity of a cell. The PRO polypeptides or
polymucleotides are also useful as pharmaceuticals, diagnostics,
biomarkers or bioreactors, for detecting or treating e.g. tumours in
mammals, e.g. humans, dogs, cats, cattle, horses, sheep, goats or
rabbits as targets for therapeutic intervention in certain cancers (e.g.
colon, lung or breast cancers) and diagnostic determination of the
presence of these cancers. The PRO polypeptides are also useful as
molecular weight markers or for chromosome identification. The PRO genes
are useful as hybridisation probes or for screening libraries of human
cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
therapy, particularly for replacing a defective gene. The sequences
presented in ABUS8900-ABUS9046 are the PRO polypeptides of the invention.

Sequence 280 AA;
SQ

Query March 28.0%; Score 352.5; DB 24; Length 280;
Best Local Similarity 29.1%; Pred. No. 2,3e-27;
Matches 77; Conservative 53; Xismatches 92; Indels 43; Gaps 6

QY 1 MODEGYITINIKTKKPKALV-----SVGPASSFWRWVALILICVMVGVAIGI 53
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Db 11 MDDDGTTMSLSQSATTHHEPERTRHAPSSTWRVALLTLTLCVLHGLAAQL 70
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QY 54 W-----SWQRNY-----LIDENERTSLQOLAKRFQYVKOSE 89
| | | : : : : :
Db 71 LFPOYYQLSNTGGDTISQMEERLGNTSCLOQLQVINKLASGLGVAAEKR-----E 124
| | | : : : : :
QY 90 LKGTFPGHKSPCDTWARYYGSCVGEFPHNLTWEESKRCYCDMAATLKLNEMIVETI 149
| | | : : : : :
Db 125 LYKAGAHKRPCTTEQWKHGNDVCYFYDSSKMECKFCLESMTMKIKIKOSLEBRA 184
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QY 150 KARTH----LRVWGSLRSQKSNEWZWEDGSVISNMFEFLD--GKNMNAVFHNNGM 203
| | | : : : : :
Db 185 ASQSYSEFPYSYWTGLLRPDSCRAWLMKDGTFTSELFIITDIVSPSRDCVALINMI 244
| | | : : : : :
QY 204 HPTFCNKHYLMORERKAGMTXDL 228
| | | : : : : :
Db 245 FSKDCEKLRCVGERRAGWKESTL 269
| | | : : : : :

RESULT 50
ABUS6236
TD ANUS6236 standard: Protein: 280 aa

XX AC ABU56236;
XX DT 26-MAR-2003 (first entry)
XX DE Human secreted/transmembrane protein, PRO1131.
XX KW Human; secreted protein; transmembrane protein; PRO;
KW antiarthritic; vulnery; tumour necrosis factor-alpha;
KW chondrocyte cell proliferation; chondrocyte cell differentiation;
KW tumour; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour;
KW bone disorder; cartilage disorder; arthritis; sports injury.
XX OS Homo sapiens.
XX PN US2003022298-A1.
XX PD 30-JAN-2003.
XX PF 20-JUN-2002; 2002US-0176913.
XX PR 05-NOV-1997; 97WO-US20069.
PR 10-SEP-1998; 98WO-US18824.
PR 14-SEP-1998; 98WO-US19177.
PR 15-SEP-1998; 98WO-US19330.
PR 17-SEP-1998; 98WO-US19437.
PR 07-OCT-1998; 98WO-US21141.
PR 20-NOV-1998; 98WO-US24855.
PR 01-DEC-1998; 98WO-US24855.
PR 05-JAN-1999; 99WO-US00106.
PR 08-MAR-1999; 99WO-US05028.
PR 10-MAR-1999; 99WO-US05190.
PR 20-APR-1999; 99WO-US08615.
PR 14-MAY-1999; 99WO-US10753.
PR 02-JUN-1999; 99WO-US12252.
PR 01-SEP-1999; 99WO-US20111.
PR 08-SEP-1999; 99WO-US20594.
PR 13-SEP-1999; 99WO-US20944.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 05-OCT-1999; 99WO-US23089.
PR 29-NOV-1999; 99WO-US28214.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US28409.
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PR 02-DEC-1999; 99WO-US28531.
PR 02-DEC-1999; 99WO-US28554.
PR 02-DEC-1999; 99WO-US28565.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 22-DEC-1999; 99WO-US30929.
PR 30-DEC-1999; 99WO-US31243.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00277.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
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PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US05004.
PR 01-MAR-2000; 2000WO-US05601.
PR 02-MAR-2000; 2000WO-US05941.
PR 10-MAR-2000; 2000WO-US06319.
PR 15-MAR-2000; 2000WO-US06884.
PR 21-MAR-2000; 2000WO-US07532.
PR 30-MAR-2000; 2000WO-US08439.
PR 17-MAY-2000; 2000WO-US13705.
PR 23-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.

PR 02-JUN-2000; 2000WO-US15264.
PR 28-JUL-2000; 2000WO-US20710.
PR 11-AUG-2000; 2000WO-US22031.
PR 23-AUG-2000; 2000WO-US23522.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 10-NOV-2000; 2000WO-US30873.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.
PR 28-FEB-2001; 2001WO-US06520.
PR 22-MAR-2001; 2001WO-US09552.
PR 25-MAY-2001; 2001WO-US17092.
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PR 20-JUN-2001; 2001WO-US19692.
PR 25-JUN-2001; 2001WO-US21066.
PR 09-JUL-2001; 2001WO-US21735.
PR 29-AUG-2001; 2001WO-US27059.
PR 18-SEP-1997; 97US-059263P.
PR 18-SEP-1997; 97US-059263P.
PR 17-OCT-1997; 97US-062282P.
PR 21-OCT-1997; 97US-063466P.
PR 24-OCT-1997; 97US-063120P.
PR 24-OCT-1997; 97US-063121P.
PR 28-OCT-1997; 97US-063540P.
PR 28-OCT-1997; 97US-063541P.
PR 28-OCT-1997; 97US-063544P.
PR 28-OCT-1997; 97US-063564P.
PR 29-OCT-1997; 97US-063734P.
PR 31-OCT-1997; 97US-063870P.
PR 31-OCT-1997; 97US-064103P.
PR 13-NOV-1997; 97US-065311P.
PR 21-NOV-1997; 97US-066120P.
PR 24-NOV-1997; 97US-066466P.
PR 11-DEC-1997; 97US-069335P.
PR 12-DEC-1997; 97US-069425P.
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PR 18-DEC-1997; 97US-068017P.
PR 10-MAR-1998; 98US-077450P.
PR 11-MAR-1998; 98US-077632P.
PR 11-MAR-1998; 98US-077649P.
PR 20-MAR-1998; 98US-078866P.
PR 27-MAR-1998; 98US-078939P.
PR 27-MAR-1998; 98US-079664P.
PR 31-MAR-1998; 98US-079786P.
PR 31-MAR-1998; 98US-080107P.
PR 01-APR-1998; 98US-080194P.
PR 01-APR-1998; 98US-080387P.
PR 01-APR-1998; 98US-080333P.
PR 08-APR-1998; 98US-081049P.
PR 08-APR-1998; 98US-081070P.
PR 09-APR-1998; 98US-081195P.
PR 15-APR-1998; 98US-081838P.
PR 21-APR-1998; 98US-082568P.
PR 21-APR-1998; 98US-082569P.
PR 22-APR-1998; 98US-082704P.
PR 22-APR-1998; 98US-082797P.
PR 28-APR-1998; 98US-083322P.
PR 29-APR-1998; 98US-083495P.
PR 29-APR-1998; 98US-083496P.
PR 29-APR-1998; 98US-083499P.
PR 29-APR-1998; 98US-083559P.
PR 05-MAY-1998; 98US-084366P.
PR 06-MAY-1998; 98US-084414P.
PR 07-MAY-1998; 98US-084639P.
PR 07-MAY-1998; 98US-084640P.
PR 15-MAY-1998; 98US-085573P.
PR 15-MAY-1998; 98US-085579P.
PR 15-MAY-1998; 98US-085580P.
PR 15-MAY-1998; 98US-085582P.
PR 15-MAY-1998; 98US-085700P.
PR 18-MAY-1998; 98US-086023P.
PR 22-MAY-1998; 98US-086392P.

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PR 22-MAY-1998; 98US-086486P.
PR 28-MAY-1998; 98US-087098P.
PR 28-MAY-1998; 98US-087208P.
PR 02-JUN-1998; 98US-087609P.
PR 02-JUN-1998; 98US-087759P.
PR 03-JUN-1998; 98US-087827P.
PR 04-JUN-1998; 98US-088025P.
PR 04-JUN-1998; 98US-088028P.
PR 04-JUN-1998; 98US-088029P.
PR 04-JUN-1998; 98US-088033P.
PR 04-JUN-1998; 98US-088326P.
PR 05-JUN-1998; 98US-088167P.
PR 05-JUN-1998; 98US-088202P.
PR 05-JUN-1998; 98US-088212P.
PR 05-JUN-1998; 98US-088217P.
PR 09-JUN-1998; 98US-088655P.
PR 10-JUN-1998; 98US-088722P.
PR 10-JUN-1998; 98US-088738P.
PR 10-JUN-1998; 98US-088740P.
PR 10-JUN-1998; 98US-088811P.
PR 10-JUN-1998; 98US-088824P.
PR 10-JUN-1998; 98US-088825P.
PR 11-JUN-1998; 98US-088861P.
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PR 11-JUN-1998; 98US-088876P.
PR 12-JUN-1998; 98US-089090P.
PR 12-JUN-1998; 98US-089105P.
PR 16-JUN-1998; 98US-089512P.
PR 16-JUN-1998; 98US-089514P.
PR 17-JUN-1998; 98US-089538P.
PR 17-JUN-1998; 98US-089598P.
PR 18-JUN-1998; 98US-089653P.
PR 19-JUN-1998; 98US-089908P.
PR 22-JUN-1998; 98US-089952P.
PR 22-JUN-1998; 98US-090245P.
PR 22-JUN-1998; 98US-090252P.
PR 24-JUN-1998; 98US-090254P.
PR 24-JUN-1998; 98US-090429P.
PR 24-JUN-1998; 98US-090435P.
PR 24-JUN-1998; 98US-090444P.
PR 24-JUN-1998; 98US-090461P.
PR 24-JUN-1998; 98US-090533P.
PR 24-JUN-1998; 98US-090540P.
PR 25-JUN-1998; 98US-090676P.
PR 25-JUN-1998; 98US-090678P.
PR 25-JUN-1998; 98US-090688P.
PR 25-JUN-1998; 98US-090690P.
PR 25-JUN-1998; 98US-090694P.
PR 25-JUN-1998; 98US-090695P.
PR 25-JUN-1998; 98US-090696P.
PR 26-JUN-1998; 98US-090862P.
PR 26-JUN-1998; 98US-090863P.
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Query Match 28.0%; Score 352.5; DB 24; Length 280;
Best Local Similarity 29.1%; Pred. No. 2.3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

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QY 1 MOEDGYITNITKRPALV-----SVGPASSFWRVALLILILICGVGVVALGI 53
DB 11 MLDDBDTTMSLSQASATRHPEPRTEHRAPSSTWRPALT.LTLCVLLGLALGL 70
QY 54 W-----SVQORNY-----LDENENRTGTLQCIARPCQVYVQSE 89
DB 71 LFFQYQOLSTNGQDTISQMERLGNISQELQSLQVONIKLAGSLCHVAEKLCR-----E 124
QY 90 LKGTFTGCHKSPDPTWRYRGDSCYGFENLWBSKQYCTDMAATLKIDNRNIVEYI 149
DB 125 LYNKAGAHROSPTBQMKHGDNCYQFYKDSKSWEDCKYFCLSENSTMLKINKQDLEPA 184
QY 150 KAPTH---LIRVAGLSROKSNVWAKEDGSVISENMFELRD--GKANNCAYFFHNGKK 203
DB 185 ASGSYSSEFFSYSTGLLRPSGKAMLMDETPFTSEUFIITIDVTSRSDCVALLNGWT 244
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QY 204 HPTCEKHYIMCERKAGTKVDOL 228
DB 245 FSKDCKELKRCYCERRAGWKPBSL 269

Search completed: December 3, 2003, 08:46:03
Job time : 45 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 3, 2003, 08:44:37 ; Search time 21 Seconds

(without alignments)
1048.697 Million cell updates/sec

Title: US-09-903-190-97

Perfect score: 1261

Sequence: 1 MOEDDGYITINIKTRKPAIV.....NKHYLMCRKAKTKVDQLP 229

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

PIR 76: *
1: p1r1: *
2: p1r2: *
3: p1r3: *
4: p1r4: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	213	16.9	301	1 LNRT2	hepatic lectin 2 -
2	211.5	16.8	216	2 PT0375	hepatic killer cel
3	200.5	15.9	301	2 S13165	asialoglycoprotein
4	187	14.8	223	2 A33917	NK-cell receptor p
5	175.5	13.9	188	2 I59421	mast cell function
6	175	13.9	363	2 CE0111	lectin-like oxidiz
7	174.5	13.8	207	1 LNCHL	hepatic lectin - c
8	174	13.8	233	2 PT0372	natural killer cel
9	173.5	13.8	257	2 I50146	gene 17.5 protein
10	170.5	13.5	223	2 B46467	NKR-P1 protein hom
11	167.5	13.3	266	2 I49051	Ly-49F-G2 antigen
12	167	13.2	231	2 PT0374	natural killer cel
13	164.5	13.0	404	2 A46274	HIV gp120-binding
14	163.5	13.0	266	2 I49363	natural killer cel
15	160.5	12.7	266	2 I49114	Ly49H - mouse
16	160.5	12.7	306	2 A42230	lectin M-ASGP-BP p
17	158	12.5	225	2 I38700	hMCR-P1a protein -
18	158	12.5	260	2 I49049	Ly-49D-GE antigen
19	157.5	12.5	262	2 I49361	natural killer cel
20	157.5	12.5	304	2 JX0209	Ly49c - mouse
21	157.5	12.5	304	2 JX0209	lectin, galactose/
22	156	12.4	227	2 A46467	natural killer cel
23	152.5	12.1	222	2 A46813	T-cell surface gly
24	151.5	12.0	240	2 I54524	natural killer cel
25	151.5	12.0	266	2 I49050	Ly-49S-GE antigen
26	151	12.0	284	2 S29855	asialoglycoprotein
27	151	12.0	331	1 LNMSER	IGF Rc receptor, I
28	149.5	11.9	220	2 C46467	NKR-P1 protein hom
29	149.5	11.9	262	2 A30573	T-cell surface gly

30	148	11.7	156	2 T28141	C type lectin, B1
31	146	11.6	311	1 LNRT2A	asialoglycoprotein
32	145.5	11.5	284	1 LNRTL	hepatic lectin - r
33	145	11.5	267	2 I49053	Ly-49G.2 antigen -
34	144	11.4	288	2 I49058	Ly49c - mouse
35	143.5	11.4	1458	1 A49707	phospholipase A2 r
36	141.5	11.2	280	2 I49052	Ly-49E.1 antigen -
37	141	11.2	262	2 T34115	hypothetical prote
38	140	11.1	380	2 T28081	hypothetical prote
39	139	11.0	1487	2 S48719	phospholipase-A(2)
40	138.5	11.0	1487	2 S48719	hepatic lectin H1
41	137.5	10.9	159	2 JH0822	Lymphocyte early a
42	137	10.9	257	2 I55686	Lyb-1 - mouse
43	137	10.9	309	1 S34198	IGF Rc receptor II
44	136.5	10.8	742	2 UC7595	scavenger receptor
45	136	10.8	152	2 UC7134	agkasiacuracin alph
46	135	10.7	1643	2 T14274	versican precursor
47	135	10.7	3381	2 T42389	versican precursor
48	134	10.6	2397	1 A55535	versican precursor
49	134	10.6	2409	1 A60879	versican precursor
50	132.5	10.5	1479	2 T42710	mannose receptor,
51	132	10.5	3562	2 A47171	chondroitin sulfat
52	131.5	10.4	170	2 T28140	natural killer cel
53	130	10.3	1456	1 A36563	mannose receptor p
54	129.5	10.3	1463	2 A53210	mannose receptor p
55	127	10.1	1455	1 A48825	mannose receptor p
56	125	9.9	144	2 PC7027	aggritin alpha cha
57	124.5	9.9	321	1 LNRT2	IGF Rc receptor II
58	124	9.8	173	2 T25730	hypothetical prote
59	124	9.8	1257	2 S28764	neurocan precursor
60	123.5	9.8	1326	2 B56395	secretory phosphol
61	123.5	9.8	1465	2 A56395	secretory phosphol
62	123	9.8	166	1 RGH01B	regenerating islet
63	122	9.7	173	2 B47148	reg II, regenerati
64	122	9.7	237	2 UC7608	type II lectin-lik
65	121.5	9.6	129	2 UC4329	coagulation factor
66	121	9.6	133	2 A47267	botrocetin alpha c
67	121	9.6	379	2 T22592	hypothetical prote
68	121	9.6	1723	2 S38880	hypothetical prote
69	120	9.5	719	2 T00266	receptor DRC-205 -
70	118.5	9.4	550	2 A28166	hypothetical prote
71	118.5	9.4	883	2 S57653	Kupffer cell recep
72	118	9.4	146	2 JC4691	brevican precursor
73	118	9.4	152	2 JC4690	coagulation factor
74	118	9.4	165	2 A28351	coagulation factor
75	118	9.4	166	1 RGH01A	pancreatic stone p
76	118	9.4	166	1 A45751	regenerating islet
77	118	9.4	178	2 T29536	pancreatic stone p
78	117.5	9.3	125	2 B47267	hypothetical prote
79	117	9.3	333	2 T21595	botrocetin beta ch
80	117	9.3	1268	2 S52781	hypothetical prote
81	116	9.2	321	2 T26152	neurocan - mouse
82	115.5	9.2	883	2 S49126	hypothetical prote
83	115	9.1	147	2 A26697	brevican precursor
84	114.5	9.1	125	2 JC5058	echinoidin - sea u
85	114	9.0	131	2 JC5058	bitiscetin beta ch
86	114	9.0	173	2 S10548	bitiscetin alpha c
87	113.5	8.9	2415	1 A39086	lectin - barnacle
88	112.5	8.9	359	2 A46509	aggracan precursor
89	112.5	8.9	912	2 A54423	B cell differentia
90	112	8.9	166	2 T28809	hypothetical prote
91	112	8.9	368	2 T26339	hypothetical prote
92	111.5	8.8	354	2 A32331	hypothetical prote
93	111	8.8	376	2 UC4892	B-cell differentia
94	111	8.8	1019	2 A38738	L-selectin precurs
95	111	8.8	2109	1 I50421	coagulation factor
96	110.5	8.8	708	2 T19474	aggracan precursor
97	110	8.7	2124	2 A28452	hypothetical prote
98	109.5	8.7	146	2 UC7135	proteoglycan core
99	109.5	8.7	302	2 T25020	agkasiacuracin beta
100	109.5	8.7	463	2 T26655	hypothetical prote

QY 190 KGNMCAVFHNGKMHPTFCENKHYLMCERKAGMT 223
 Db 267 GGEQCAELISDGHNNDFNCQOVNRMVCEKRNIT 300

RESULT 4

A35917
 NK-cell receptor p1 - rat
 C/Species: Rattus norvegicus (Norway rat)
 C/Date: 12-Apr-1991 #sequence_revision 12-Apr-1991 #text_change 24-Sep-1999
 C/Accession: A35917
 R/Giorda, R.; Rudert, W.A.; Vassacori, C.; Chambers, W.H.; Hiserodt, J.C.; Trucco, M.
 Science 249, 1298-1300, 1990
 A/Title: NKRP-1, a signal transduction molecule on natural killer cells.
 A/Reference number: A35917; MUID:90378305; PMID:2399464
 A/Accession: A35917
 A/Status: Preliminary
 A/Molecule type: mRNA
 A/Residues: 1-223 <GIO>
 A/Cross-references: GB:M62891; NID:G205722; PIDN:AAA41713.1; PID:G205723
 C/Suprafamily: natural killer cell receptor p1; C-type lectin homology
 C/Keywords: transmembrane protein
 F/94-210/Domain: C-type lectin homology <LCH>

Query Match 14.8%; Score 187; DB 2; Length 223;
 Best Local Similarity 22.7%; Pred. No. 2,38-09;
 Matches 53; Conservative 50; Mismatches 84; Indels 46; Gaps 5;

QY 8 ITLNIRKRPAL-----VSVPASSFWMEVMAIIICVGVVGLVGLVSVQNRN 60
 Db 6 VYSLKSKSKTAAGQCVSPSPIDACRPSHRLAKLSCAGILVLAIVKXSLVVRV 65
 QY 61 YLQ-----DENENRTGTLQOLAKRRCQYVVKOSLKGTFKHGKSPCTNNRY 109
 Db 66 LVQRPSEVPCRVLIQENLSKISGPAKL-----KCEKMLSH 101
 QY 110 GDSCYGFRRNLTWESKOYCTDMNATLLKIDNRNIVEYIARTHLR--WVGLSRQKS 166
 Db 102 RDKCFHVSQSIWTKESLADCGKAGIILVQDDEHLRFELNLTKRISSSRWIGSLTSL 161
 QY 167 NEWKAKDDGVISNMFLEDDGKGNMCAVFHNGKMHPTFCENKHYLMCERK 219
 Db 162 DENWKWINGSTLNSDVLSITGDTKED-SCASVSQDKLSDESDDNIVWCQKE 213

RESULT 5

I59421
 mast cell function associated antigen - rat
 C/Species: Rattus norvegicus (Norway rat)
 C/Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 05-Nov-1999
 C/Accession: I59421
 R/Gutmann, M.D.; Tai, M.; Pecht, I.
 Proc. Natl. Acad. Sci. U.S.A. 92, 9397-9401, 1995
 A/Title: A secreted inhibitory signal transduction molecule on mast cells is another C
 A/Reference number: I59421; MUID:96016176; PMID:7568140
 A/Accession: I59421
 A/Status: Preliminary; translated from GB/EMBL/DBJ
 A/Molecule type: mRNA
 A/Residues: 1-188 <RKS>
 A/Cross-references: EMBL:X79812; NID:G1020141; PIDN:CAA56208.1; PID:G1020142
 C/Genetics:
 A/Gene: macta

Query Match 13.9%; Score 175.5; DB 2; Length 188;
 Best Local Similarity 26.9%; Pred. No. 2,1e-08;
 Matches 61; Conservative 32; Mismatches 83; Indels 51; Gaps 12;

QY 1 MODEGTYITNIRKRPALVSVGPASSFWMEVMAIIICVGVVGLVGLVSVQNRN 60
 Db 1 MAUNSTVSTEL-----PAAPRVQDDSR--WKVKA-VLHRCVSYIV-MVALGILLVIVMS 52
 QY 61 YLQDENENRTGTLQOLAKRRCQYVVKOSLKGTFKHGKSPCTNNRYVSDSCY3FFRRN 120

Db 53 LILYQRLCCGS-----KG-FMCSQSCRCPJNLRNNGSHCYFPMER 93

QY 121 LTWEESKOYCTDMNATLLKI-DNRNI--VEYIARTHLRVGLSRQKSEVWKWEDG- 175
 Db 94 RDMNSLAKFADKXSHLLTFPDNQGVLVLPQYIGEDPY--WIGL--RIDGKRWDDGP 147

QY 176 ---SVISENMFLEDDGKGNMCAVFHNGKMHPTFCENKHYLMCER 218
 Db 148 ALSISLNSGVQ-----KCGTIRCGLHASSCEVALQWICEK 185

RESULT 6

JE0111
 lectin-like oxidized LDL receptor - mouse
 N/Alternate names: LDX-1
 C/Species: Mus musculus (house mouse)
 C/Date: 22-May-1998 #sequence_revision 29-May-1998 #text_change 07-May-1999
 C/Accession: JE0111
 R/Hoshikawa, H.; Sawamura, T.; Kakutani, M.; Aoyama, T.; Nakamura, T.; Masaki, T.
 Biochem. Biophys. Res. Commun. 245, 841-846, 1998
 A/Title: High affinity binding of oxidized LDL to mouse lectin-like oxidized LDL recept
 A/Reference number: JE0111; MUID:98249801; PMID:9588202
 A/Accession: JE0111
 A/Molecule type: mRNA
 A/Residues: 1-363 <HOS>
 F/34-59/Domain: transmembrane #status predicted <TM>

Query Match 13.9%; Score 175; DB 2; Length 363;
 Best Local Similarity 24.9%; Pred. No. 4,8e-08;
 Matches 43; Conservative 38; Mismatches 60; Indels 32; Gaps 7;

QY 62 LDENENRTGTLQOLAKRRCQYVVKOSLKGTFKHGKSPCTNNRYVSDSCYGFRRN 121
 Db 214 LILKNQNLQALQPAAD-----NPSG-----PCQPDWIMHKNQCY-LFRCPF 253
 QY 122 TWEEESKOYCTDMNATLLKIDNRNIVEYI-KARHILR--WVGLSRQKSEVWKWEDG 178
 Db 254 SBEKRRQTCSLGGQLQINGADLVFLLQAIHSHTSPFWIGJARRKKPQGPFWIMENIGPL 313
 QY 179 SENMFLEDDGKGNM-----NCAVFHNGKMHPTFCENKHYLMCERKAGMTKV 225
 Db 314 N---FQPFKIRGVSLQVSSGNCAYLDQDAVPAPNCILIAFSLCQKRTNHLQI 363

RESULT 7

LNCAL
 hepatic lectin - chicken
 C/Species: Gallus gallus (chicken)
 C/Date: 08-Oct-1981 #sequence_revision 08-Oct-1981 #text_change 22-Jun-1999
 C/Accession: A03167; A28194; A40427
 R/Dickamer, K.
 J. Biol. Chem. 256, 5827-5839, 1981
 A/Title: Complete amino acid sequence of a membrane receptor for glycoproteins. Sequenc
 A/Reference number: A03167; MUID:81215504; PMID:7240175
 A/Accession: A03167
 A/Molecule type: protein
 A/Residues: 1-207 <DRI>
 A/Note: some or all of the cysteines are involved in disulfide bonds
 A/Note: residues 24-48 form an unchanged, hydrophobic region that may interact with or
 J. Biol. Chem. 263, 5468-5473, 1988
 A/Title: Endocytosis of N-acetylglucosamine-containing glycoproteins by rat fibroblasts
 A/Reference number: A28194; MUID:88186849; PMID:3281941
 A/Accession: A28194
 A/Molecule type: mRNA
 A/Residues: 1-207 <MEL>
 A/Cross-references: GB:J03188; NID:G212246; PIDN:AAA8937.1; PID:G212247
 R/Bezouska, K.; Crichton, G.V.; Rose, U.M.; Taylor, M.E.; Dickamer, K.
 U. Biol. Chem. 266, 11604-11609, 1991
 A/Title: Evolutionary conservation of intron position in a subfamily of genes encoding
 A/Reference number: A40427; MUID:91268022; PMID:2050668
 A/Accession: A40427
 A/Molecule type: DNA

A:Residues: 1-207 <BER>
 A:Cross-references: GB:M63225; GB:M63226; GB:M63227; GB:M63228; GB:M63229; GB:M63230; NT
 C:Comment: Hepatic lectin is a membrane receptor protein that recognizes and binds exposed
 and endocytosis.
 C:Genetics:
 A:Introns: 15/1; 50/1; 75/1; 125/3; 163/2
 C:Superfamily: hepatic lectin; C-type lectin homology
 C:Keywords: acetylated amino end; glycoprotein; lectin; transmembrane protein
 F:1-23/Domain: intracellular #status predicted <INT>
 F:124-47/Domain: transmembrane #status predicted <TRA>
 F:148-207/Domain: extracellular #status predicted <EXT>
 F:178-201/Domain: C-type lectin homology <LCH>
 F:1/Modified site: acetylated amino end (Met) #status experimental
 F:67/Binding site: carbohydrate (Asn) (covalent) #status experimental

Query Match 13.8%; Score 174.5; DB 1; Length 207;
 Best Local Similarity 25.8%; Pred. No. 2.9e-08;
 Matches 41; Conservative 36; Mismatches 69; Indels 13; Gaps 5;

QY 72 TLQQLAKFCQVYVQSSLKGFKHH-----KCSGCDINMYRGDSCTGPFRRNLTWES 126
 DB 46 SLARPAISSKSLTQSPKINFSRDLPLPCQAQSQMVEFRCRCYFSLISMSWKA 105
 QY 127 KOYCDNATLLKIDNENIVEYIKARTHLIR-WGLSQKSNVWKWEDGVSINMPF 135
 DB 106 KAECEWMSHLILIDSVAKKQFVMTNERNFICLTIDNCEGEMQWVDGT-DTRSRFT 164
 QY 186 LEDGKG-----NNMCAY-FHNGKHPFCEKHYLMCR 218
 DB 165 WKGEPPNNGFNEDEAHVWTSQWMDVYCTYECYVCEK 203

RESULT 8

PT0372
 natural killer cell receptor group 2, splice form A - human
 N:Alternate names: NK2-A; NK2-B
 N:Contains: natural killer cell receptor group 2, splice form B
 C:Species: Homo sapiens (man)
 C>Date: 31-Mar-1997 #sequence_revision 31-Mar-1992 #text_change 05-May-2000
 C:Accession: PT0372; PT0373
 R:Houchens, J.P.; Yabe, T.; McSherry, C.; Bach, F.H.
 J. Exp. Med. 173, 1017-1020, 1991
 A>Title: DNA sequence analysis of NK2, a family of related cDNA clones encoding type II
 A:Reference number: PT0372; MUID:91178434; PMID:2007850
 A:Accession: PT0372
 A:Molecule type: mRNA
 A:Residues: 1-233 <HOU1>
 A:Cross-references: EMBL:X54867; NID:935056; PIDN:CAA38649.1; PID:935057
 A:Experimental source: natural killer cell
 A:Accession: PT0373
 A:Molecule type: mRNA
 A:Residues: 1-95,114-233 <HOU2>
 A:Cross-references: GB:X54866; NID:935058; PIDN:CAA38650.1; PID:935059
 A:Experimental source: natural killer cell
 C:Genetics:
 A:Gene: GDB:KLRCL; NK2
 A:Cross-references: GDB:138773; OMIM:161555
 A:Map position: 12pter-12qter
 C:Superfamily: natural killer cell receptor P1; C-type lectin homology
 C:Keywords: alternative splicing; glycoprotein; transmembrane protein
 F:71-98/Domain: transmembrane #status predicted <TRA>
 F:119-229/Domain: C-type lectin homology <LCH>
 F:102,103,151,180/Binding site: carbohydrate (Asn) (covalent) #status predicted
 F:119-130,147-229,208-221/Disulfide bonds: #status predicted

Query Match 13.8%; Score 174; DB 2; Length 233;
 Best Local Similarity 23.9%; Pred. No. 3.6e-08;
 Matches 44; Conservative 28; Mismatches 86; Indels 26; Gaps 4;

QY 36 ILILICGVGVGVVALGWSVMQKNYLODENERTGTQLAKRFGCVVQSSLKGF 95
 DB 75 ILGICILIMASVTI---VPISTLIQRHNSSLNTRTQ-----K 112

QY 96 GHKSPCDTWRRYGGSCYGFPRHNLTWESKQYCTDMNATLKIDNRNIVEYIKARTHL 155
 DB 113 ARHGHCPRESMITYNSCYIYGKERTWESSLACTSKNSLSLIDNEEMKFLSTSP- 171
 QY 156 IRWYLSRQKSNVWKWEDGVSINMFEFLDEGKGMNCAYPFNGKHPFCEKHYLM 215
 DB 172 SSWIGFRNSHHHPWTMNLAFKH--EIKSDMELNCAVJOVNLKGAQCGSSITTH 228
 QY 216 CERK 219
 DB 229 CKHK 232

RESULT 9

150146
 gene 17.5 protein - chicken
 C:Species: Gallus gallus (chicken)
 C>Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 21-Jul-2000
 C:Accession: 150146
 R:Bernot, A.; Zocorob, R.; Aufray, C.
 Immunogenetics 39, 221-229, 1994
 A>Title: Linkage of a new member of the lectin supergene family to the chicken Mhc gene
 A:Reference number: 150146; MUID:94164691; PMID:8119728
 A:Accession: 150146
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-257 <BER>
 A:Cross-references: GB:M88072; NID:9505324; PIDN:AAA4858.1; PID:9505325
 C:Superfamily: C-type lectin homology
 F:129-241/Domain: C-type lectin homology <LCH>

Query Match 13.8%; Score 173.5; DB 2; Length 257;
 Best Local Similarity 27.1%; Pred. No. 4.5e-09;
 Matches 35; Conservative 25; Mismatches 56; Indels 13; Gaps 4;

QY 99 CSP-----CDTWRRYGGSCYGFPRHNLTWESKQYCTDMNATLKIDNRNIVEYIK 150
 DB 119 CSPAPPSHYCPNNAWGVGQKCYFSPTEBDMSRRHGRLGSLTLDTKREMEMLD 178
 QY 151 ARTHLIRWGLSRQKSNVWKWEDGVSINMFEFLDEGKGMNCAYPFNGKHPFCE 209
 DB 179 YORPADRWIGLHRRGDEHWTWADGSAFTIRPVFEL---RGGRCAVINGDGISSALCH 234
 QY 210 NKHLNCR 218
 DB 235 SEKFWVCSR 243

RESULT 10

B46467
 NKR-P1 protein homolog - mouse
 C:Species: Mus musculus (house mouse)
 C>Date: 18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change 24-Sep-1999
 C:Accession: B46467
 R:Giorda, R.; Trucco, M.
 J. Immunol 147, 1701-1708, 1991
 A>Title: A family of genes selectively coexpressed in adherent lymphokine-activated KIL
 A:Reference number: A46467; MUID:91349596; PMID:1880421
 A:Accession: B46467
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-223 <GIO>
 A:Cross-references: GB:M77677; NID:9200060; PIDN:AAA39823.1; PID:9200061
 A:Experimental source: NK cells, CS7BL/7B
 A>Note: sequence extracted from NCBI backbone (NCBI:52380, NCBI:52381)
 C:Superfamily: natural killer cell receptor P1; C-type lectin homology
 C:Keywords: transmembrane protein
 F:94-210/Domain: C-type lectin homology <LCH>

Query Match 13.5%; Score 170.5; DB 2; Length 223;
 Best Local Similarity 26.1%; Pred. No. 7.1e-08;
 Matches 61; Conservative 37; Mismatches 87; Indels 49; Gaps 10;

C/Accession: 149363; 149362
 R/Held, W.; Roland, J.; Raullet, D.H.
 Nature 376, 355-358, 1995
 A/Title: Allelic exclusion of Ly49-family genes encoding class I MHC-specific receptors
 A/Reference number: 149361; MUID:96356819; PMID:7630404
 A/Accession: 149363
 A/Status: preliminary; translated from GB/EMBL/DDBJ
 A/Molecule type: mRNA
 A/Residues: 1-266 <RES>
 A/Cross-references: EMBL:U34892; NID:G1003008; PID:G1003009
 A/Accession: 149362
 A/Status: preliminary; translated from GB/EMBL/DDBJ
 A/Molecule type: mRNA
 A/Residues: 1-266 <RES>
 A/Cross-references: EMBL:U34891; NID:G1003006; PID:AAA77066.1; PID:G1003007
 C/Superfamily: hepatic lectin; C-type lectin homology

Query Match 13.0%; Score 163.5; DB 2; Length 266;
 Best Local Similarity 22.8%; Pred. No. 3.7e-07;
 Matches 55; Conservative 34; Mismatches 93; Indels 59; Gaps 10;

QY 30 WRVVALILITCYGVVGVVVALGWSVWQRYIODENENRTGTLQQLAKRFQYVVKQSE 89
 Db 43 WQIVKALGILCPILLVIVAVLTIKFQYSQHKQELINE---TLNHYTN--CSNMOSDFN 96
 QY 90 LKG---TFKGHKCSPC-----DT-----NWRYYGDSQY 115
 Db 97 LKEMLNKSIDCGRPSNELDYIKREDQRMNSERTKTVLDSRRTGRCVKWPFCTGTCTCY 156
 QY 116 FFRNLTWESKQYCTMNAATLKIENRIVEYIKARTHLI--RWGLSRQKSNENVWK 172
 Db 157 FIMKRTWSGCKRACQHSVPVIXKLEDEDELKFL--ORHVPESYWGILSDKKEKEMW 214
 QY 173 EDGVSLENM---FEFLDEGKAMNCAYPHNGKMHCTPQENKXYLCKEKAQMTKXQJ 228
 Db 215 IDNQSGLDMKTRMANKRG-----CVFSKATIEDTQNPYCIQCK-----KDDKF 264
 QY 229 P 229
 Db 265 P 265

RESULT 15
 149114
 Ly49H - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 27-Feb-1997 #sequence_revision 27-Feb-1997 #text_change 19-May-2000
 C/Accession: 149114
 R/Breman, J.; Mager, D.; Telfer, W.; Takei, F.
 U. Exp. Med. 180, 2287-2295, 1994
 A/Title: Expression of different members of the Ly-49 gene family defines distinct natu
 A/Reference number: 149114; MUID:9505763; PMID:7964501
 A/Accession: 149114
 A/Status: preliminary; translated from GB/EMBL/DDBJ
 A/Molecule type: mRNA
 A/Residues: 1-266 <RES>
 A/Cross-references: EMBL:U12889; NID:G602407; PID:AAA58704.1; PID:G602408
 C/Genetics:
 A/Gene: Ly49H
 C/Superfamily: natural killer cell receptor P1; C-type lectin homology

Query Match 12.7%; Score 160.5; DB 2; Length 266;
 Best Local Similarity 21.2%; Pred. No. 6.8e-07;
 Matches 53; Conservative 41; Mismatches 79; Indels 77; Gaps 12;

QY 30 WRVVALILITCYGVVGVVVALGWSVWQRYIODENENRTGTLQQLAKRFQYVVKQSE 88
 Db 43 WQIVKALGILCPILLVIVAVLTIKFQYSQHKQELINE---TLNHYTN--CSNMOSDFN 95
 QY 89 ELKG---TFKGHKCSPC-----DTN-----WRYGDSQY 114
 Db 96 NLKEMLTNKSIDCRPSYELLEYIKREDQRMNSERTKTVLDSRRTGRCVKWPFCTGTCTCY 155

QY 115 GFFRNLTWESKQYCTMNAATLKIENRIVEYIKARTHLI--RWGLSRQKSNENVWK 171
 Db 156 YFIMKRTWSGCKRACQHSVPVIXKLEDEDELKFL--ORHVPESYWGILSDKKEKEMW 213
 QY 172 WEDGVSLENMFEFLDEGKAMNCAYPHNGKMHCTPQENKXYLCKEKAQMTKXQJ 219
 Db 214 W-----INHGQKLMKTKKKNFTSRGCVFSSKATIEDTQNPYCIQCK-- 259
 QY 220 AGMTKVDQLP 229
 Db 260 ---KDDKF 265

RESULT 16
 A42230
 Lectin M-ASGP-BP precursor - rat
 C/Species: Rattus norvegicus (Norway rat)
 C/Date: 19-Jun-1992 #sequence_revision 19-Jun-1992 #text_change 20-Aug-1999
 C/Accession: A42230
 R/Ji, M.; Kurata, H.; Itoh, N.; Yamashina, I.; Kawasaki, T.
 U. Biol. Chem. 265, 11295-11298, 1990
 A/Title: Molecular cloning and sequence analysis of cDNA encoding the macrophage lectin
 A/Reference number: A42230; XUID:90293078; PMID:2358462
 A/Accession: A42230
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-306 <IIT>
 A/Cross-references: GB:005495; NID:G204302; PID:AAA41216.1; PID:G204303
 C/Superfamily: hepatic lectin; C-type lectin homology
 F/158-298/Domain: C-type lectin homology <LCH>

Query Match 12.7%; Score 160.5; DB 2; Length 306;
 Best Local Similarity 25.2%; Pred. No. 8e-07;
 Matches 41; Conservative 31; Mismatches 72; Indels 19; Gaps 6;
 QY 70 TGTLOOLAKRFQYVVKQSELKTGFKGKSPCDITWRYGDSQYGFRRNLTWESKQY 129
 Db 145 TDRVQQLGKDLKTLTQGLASIKNNSAVAC--CPILHMEHSGCYFSGKGRKPEADKY 202
 QY 130 CTDMNAATLKIENRIVEYIKARTHLI--RWGLSRQKSNENVWKEDGVSLENMFEFL 186
 Db 203 QLENSNLVAVN--SLAEONFLQTHMSVAVVIGLIDQ--NGMRWVDGTDYERKFTHWA 258
 QY 187 EDGK-----GNMCAVF--HNGKCHPTFCENKXYLCKEKAQMTKXQJ 219
 Db 259 PRQPDWYGHGLGGSEDCALFTSDGRMNDVCRPRVWQCKK 301

RESULT 17
 I38700
 hNKR-P1a protein - human
 C/Species: Homo sapiens (man)
 C/Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 24-Sep-1999
 C/Accession: I38700
 R/Lanier, L.D.; Chang, C.; Phillips, J.H.
 J. Immunol. 153, 2417-2428, 1994
 A/Title: Human NKR-P1a: A disulfide-linked homodimer of the C-type lectin superfamily e
 A/Reference number: I38700; MUID:9458407; PMID:8077657
 A/Accession: I38700
 A/Status: preliminary; translated from GB/EMBL/DDBJ
 A/Molecule type: mRNA
 A/Residues: 1-225 <RES>
 A/Cross-references: EMBL:U1276; NID:G538270; PID:AAA21605.1; PID:G544496
 C/Superfamily: natural killer cell receptor P1; C-type lectin homology
 F/94-210/Domain: C-type lectin homology <LCH>

Query Match 12.5%; Score 158; DB 2; Length 225;
 Best Local Similarity 24.4%; Pred. No. 9.5e-07;
 Matches 59; Conservative 43; Mismatches 88; Indels 52; Gaps 12;
 QY 1 MDEDEYITLNTKTRKPAVSVGPASS-----FWRVVALLI-----LLICVGM 44
 Db 1 MDQAIYAEILNLP-----DSGPSSSPSSLPDVYCGSPFWHQFALKLSCAGITLLVAV 54

Db 207 DWAMIDNPPSKALNTRKXNIRPDG-----GOMLSKTRIDNMGCDQVFCICGK-----RL 257
 QY 226 DOLP 229
 Db 258 DKFP 261

RESULT 24

154524
 natural killer cell receptor group 2-C, splice form 2 - human
 C/Species: Homo sapiens (man)
 C/Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 19-May-2000
 C/Accession: 154524
 R/Adamkiewicz, T.V.; McSherry, C.; Bach, F.H.; Houchins, J.P.
 Immunogenetics 39, 218, 1994
 A/Title: Natural killer lectin-like receptors have divergent carboxy-termini, distinct
 A/Reference number: 154524; MUID:94102823; PMID:8276468
 A/Accession: 154524
 A/Status: preliminary; translated from GB/EMBL/DBJ
 A/Molecule type: mRNA
 A/Residues: 1-240 <RES>
 A/Cross-references: GB:U4542; NID:9292360; PIDN:AAA1683.1; PID:9292361
 C/Genetics:
 A/Gene: GDB:KLRG2; NKG2-C
 A/Cross-references: GDB:9787095
 A/Map position: 12p13-12p13
 C/Superfamily: natural killer cell receptor P1; C-type lectin homology

Query Match 12.0%; Score 151.5; DB 2; Length 240;
 Best local similarity 24.7%; Pred. No. 3.9e-06;
 Matches 42; Conservative 26; Mismatches 73; Indels 29; Gaps 5;

QY 31 RYVALILILICVGMVGVVAGIWSVQGRNYLODENNRGTQLAKRFQYVVKOSHL 90
 Db 70 KLTAEVIGIIC-----IVMATVLTIVIPLEQNMSSPNTRQ----- 109
 QY 91 KGTFKHKSCPDNTNMYEGDSCYGFPRHNLWESKQYCTDNN-ATILKIDNNIVEYI 149
 Db 110 ----KAPPCGCHPEWITTSYNSCYIKERRTWESLQACSKSSSLSDVEEKKFL 165
 QY 150 KARTHLJRWYGLSQRKNEVWKWEDGVSISENMFELJEDGKNNCAVYFH 199
 Db 166 -ASTLPSSWIGVFANSSHHPVTLINGLAFKH---EIKDSDHAERNCAMLH 211

RESULT 25

149050
 ly-49F-GF antigen - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 19-May-2000
 C/Accession: 149050
 R/Smith, H.R.; Karhofer, F.M.; Yokoyama, W.M.
 J. Immunol. 153, 1068-1079, 1994
 A/Title: ly-49 multigene family expressed by IL-2-activated NK cells.
 A/Reference number: 149049; MUID:94300068; PMID:8027540
 A/Accession: 149050
 A/Status: preliminary; translated from GB/EMBL/DBJ
 A/Molecule type: mRNA
 A/Residues: 1-266 <RES>
 A/Cross-references: EMBL:U10091; NID:9533489; PIDN:AAA5022.9.1; PID:9533490
 C/Superfamily: natural killer cell receptor P1; C-type lectin homology

Query Match 12.0%; Score 151.5; DB 2; Length 266;
 Best local similarity 20.7%; Pred. No. 4.4e-06;
 Matches 50; Conservative 38; Mismatches 94; Indels 59; Gaps 9;

QY 30 WRMALILILICGVVGVVAGIWSVQGRNYLODENNRGTQLQAKRFQYVVKOS 89
 Db 43 WQTVSLIGFCLLILVAVLAVKLFQYQKHQEIHE---TLNH--HNHCSNMQSDIK 96
 QY 90 LKQTFGKHK---CSPCD-----TWKRYGSCYCG 115

Db 97 LKEMLNKSIDCPGSELLSARBNQRYSPKRTDIDSCDTGTGVKMFYCYGKCFY 156
 QY 116 FFRHNLWESKQYCTDNNATLTKIDNNIVEYIKARTHLIR---WYGLSPQKNEVWKW 172
 Db 157 FIMSKNTWGGCKQTCQYSLPLVXIJEDEDELKTFQFQ--VISDSYWGSLSDKRRKQW 214
 QY 173 EDGSVISENM---FEFLEJEDGKNNCAVFRNGMGFPFCENKAYLNCERYAKTKVDOJ 228
 Db 215 IDNGPSKIDMKTRMKNFKPG-----CIFLSKTRLEDTNKNNSYFCICGK-----KLDHF 264
 QY 229 P 229
 Db 265 P 265

RESULT 26

829855
 asialoglycoprotein receptor 1 - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 20-Jun-2000
 C/Accession: S29855
 R/Ikezawa, R.; Shinzawa, K.; Watanabe, Y.; Akaike, T.
 Biochim. Biophys. Acta 1172, 220-222, 1993
 A/Title: Determination of mouse major asialoglycoprotein receptor cDNA sequence.
 A/Reference number: S29855; MUID:93176818; PMID:8439566
 A/Accession: S29855
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-284 <TRAK>
 A/Cross-references: EMBL:U13517; NID:9220480; PIDN:BA02734.1; PID:9220481
 C/Superfamily: hepatic lectin; C-type lectin homology
 C/Keywords: glycoprotein; transmembrane protein
 F153-276/Domain: C-type lectin homology <LCH>

Query Match 12.0%; Score 151; DB 2; Length 284;
 Best local similarity 24.3%; Pred. No. 5.2e-06;
 Matches 44; Conservative 33; Mismatches 84; Indels 20; Gaps 6;

QY 58 QRYVLODENNRGTQLQAKRFQYVVKOSBLKTFKHKSCPDNTNMYEGDSCYGF 117
 Db 111 QQRDLTDEHSSLLHVKQVSDVRSLSQMAAFRGNGSERTC--CFINWVEYEGSCYWF 168
 QY 118 RHNLTWESKQYCTDNNATLTKIDNNIVEYIYART-HILRWGLSRQKNEVWKWEDGS 176
 Db 169 SSVPRTWTDKVIQLNNAHLVAVTSRDEQNFLORHMPALWTGLTDQ--NGWKKWDGT 226
 QY 177 VISENMFELJEDGK-----GNMNCAYF-HNGRMR-PTFCENKAYLMCBRAKATKYVD 226
 Db 227 DYEYTFQNRPRPQPDWYGHGLGGEDCAEFITDGRWINDVCGRRPYRWCE-----TKLD 281
 QY 227 Q 227
 Db 282 K 282

RESULT 27

14MSE
 IGB FC receptor, low-affinity - mouse
 N/Alternate names: Blast-2; CD23; Fc-epsilon-RII; lymphocyte IGB receptor
 C/Species: Mus musculus (house mouse)
 C/Date: 12-Feb-1993 #sequence_revision 28-Oct-1994 #text_change 22-Jun-1999
 C/Accession: A43518; MUID:90171598; PMID:2137845
 R/Bolinick, S.O.; Tronstine, M.L.; Yamashita, L.C.; Kehry, V.R.; Moore, K.W.
 J. Immunol. 144, 1974-1982, 1990
 A/Title: Isolation, characterization, and expression of cDNA clones encoding the mouse
 A/Reference number: A43518; MUID:90171598; PMID:2137845
 A/Accession: A43518
 A/Molecule type: mRNA
 A/Residues: 1-331 <COL>
 A/Cross-references: GB:U34163; NID:9193242; PIDN:AAA7603.1; PID:9309227
 R/Bettler, B.; Hofsteeter, H.; Rao, W.; Yokoyama, W.M.; Kitchener, F.; Conrad, D.R.
 Proc. Natl. Acad. Sci. U.S.A. 86, 7566-7570, 1989
 A/Title: Molecular structure and expression of the murine lymphocyte low-affinity recep

A:Reference number: A33840; MUID:90017519; PMID:2529542
 A:Accession: A33840
 A:Molecule type: mRNA
 A:Residues: 1-331 <BRT>
 A:Cross-references: GB:M99371; NID:G193245; PIDN:AAA74898.1; PID:G193246; GB:M27150
 C:Comment: This receptor for the Fc portion of IgE is expressed in various hematopoietic FcB-cells.
 C:Superfamily: Igs receptor II; C-type lectin homology
 C:Keywords: B-cell; glycoprotein; immunoglobulin receptor; macrophage; tandem repeat; tr
 F:1-25/Domain: intracellular #status predicted <INT>
 F:14-22/Region: stop-transfer sequence
 F:26-46/Domain: transmembrane #status predicted <TM>
 F:47-33/Domain: extracellular #status predicted <EXT>
 F:66-86/Region: 21-residue repeat
 F:87-107/Region: 21-residue repeat
 F:108-128/Region: 21-residue repeat
 F:129-149/Region: 21-residue repeat
 F:186-305/Domain: C-type lectin homology <LCH>
 F:65,114/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 12.0%; Score 151; DB 1; Length 331;
 Best Local Similarity 23.1%; Pred. No. 6.2e-06;
 Matches 43; Conservative 39; Mismatches 66; Indels 38; Gaps 9;

QY 60 NYLQDE-----NENRTGT-----LQQLAKRFQYVYKQSEIKQTFKHKCSPCDT 104
 Db 137 NRIQDGLVNIKSLGINKERTSDLSLEKIQEVAKLMEILIS-----KGTACNICPK 188
 QY 105 NWRYYGDSCTGFPPHNLTWESKQYCTDMNATLKIDNRN---IWEYIKARTLIRWVG 160
 Db 189 NWLHFQKCYFYFGSKQKQWICARACSDLGRLVSHSQKQDPLMHIKND---SWIG 245
 QY 161 LSRQKSNVWVWKEGDSVTSNMFLEDDGKGNM--NCAYFH-NGKMPTEGNGHYL--- 214
 Db 246 LQDLNMGEGFVMSGSEPGVGNMNPGEHPNNGQSEDCVMNRGSGQMDAFK--KSYLDAM 303
 QY 215 MCEKKA 220
 Db 304 VCEQLA 309

RESULT 28

NKR-P1 protein homolog Gene-40 - mouse
 A:Alternate names: natural killer cell activation molecule; NK1.1 allcoantigen
 C:Species: Mus musculus (house mouse)
 C>Date: 18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change 24-Sep-1999
 C:Accession: C46467; A46499
 R:Giorda, R.; Trucco, M.
 J. Immunol. 147, 1701-1708, 1991
 A:Title: A family of genes selectively coexpressed in adherent lymphokine-activated kill
 A:Reference number: A46467; MUID:91349596; PMID:1880421
 A:Accession: C46467
 A:Status: Preliminary
 A:Molecule type: mRNA
 A:Residues: 1-220 <GIO>
 A:Cross-references: GB:M7678; NID:G200062; PIDN:AAA39824.1; PID:G200063
 A:Experimental source: NK cells; C57BL/7B
 A:Note: Sequence extracted from NCI backbone (NCBIN:52382, NCBIPI:52383)
 R:Ryan, J.C.; Turk, J.; Nienh, E.C.; Yokoyama, W.M.; Seaman, W.S.
 J. Immunol. 149, 1631-1635, 1992
 A:Title: Molecular cloning of the NK1.1 antigen, a member of the NKR-P1 family of natura
 A:Reference number: A46499; MUID:92373004; PMID:1506685
 A:Accession: A46499
 A:Status: Preliminary
 A:Molecule type: mRNA
 A:Residues: 1-86,90-220 <RYN>
 A:Cross-references: GB:543141; NID:G254094; PIDN:AAA23979.1; PID:G254095
 A:Experimental source: C57BL/6J NK cells
 A:Note: Sequence extracted from NCI backbone (NCBIN:111622, NCBIPI:111624)
 C:Superfamily: natural killer cell receptor PI; C-type lectin homology
 C:Keywords: transmembrane protein
 F:91-207/Domain: C-type lectin homology <LCH>

Query Match 11.9%; Score 149.5; DB 2; Length 220;
 Best Local Similarity 22.9%; Pred. No. 5.4e-06;
 Matches 44; Conservative 43; Mismatches 78; Indels 27; Gaps 6;

QY 35 LIIILICGVGVGVALMGISVQQRNLTQDENENRTGLQQLAKRFQYVYKQSEIKGF 94
 Db 39 LALILCSAGILILVLTIGMSVLVAVQKPSREK-----CCVEIQENLNKPTV 87
 QY 95 KGHKCSPCDNNWRYGDSCTGFPPHNLTWESKQYCTDMNATLKIDN---RNVYIK 150
 Db 88 N---LECPDMLHRKCHVAGVSTWTEBGADCRKATLIIIDQSEIRFLDSIK 143
 QY 151 ARTEILRWVGLSRQKSNVWKEGDSVTSNMFLEDDGKGNMCAVFNHGMPTF 207
 Db 144 EKNYSF-WIGRLFTLPMNWKMTNLTGNDVLTGTVTEG---SCASILGDKVPES 198
 QY 208 CENGYIMCERK 219
 Db 199 CASDNRWICQKE 210

RESULT 29

T-cell surface glycoprotein Vβ1/48 - mouse
 A:Accession: A30573
 C:Species: Mus musculus (house mouse)
 C>Date: 18-Apr-1989 #sequence_revision 18-Apr-1989 #text_change 19-May-2000
 C:Accession: A30573
 R:Chan, P.Y.; Takei, E.
 J. Immunol. 142, 1727-1736, 1989
 A:Title: Molecular cloning and characterization of a novel murine T cell surface antigen
 A:Reference number: A30573; MUID:89140367; PMID:2783949
 A:Accession: A30573
 A:Status: Preliminary
 A:Molecule type: mRNA
 A:Residues: 1-262 <CHA>
 C:Superfamily: natural killer cell receptor PI; C-type lectin homology
 C:Keywords: glycoprotein; transmembrane protein

Query Match 11.9%; Score 149.5; DB 2; Length 262;
 Best Local Similarity 21.5%; Pred. No. 6.5e-06;
 Matches 52; Conservative 36; Mismatches 95; Indels 39; Gaps 9;

QY 27 SFWMRYVALTLLILICGMVYGVVALGWSWQGNLYODEENRTGLQQLAKRFQYVYK 86
 Db 40 SFWMKRTVILGIFCTILVAVSLAI-----KIFQYDQKQCEFLNH--HNCSMQS 92
 QY 87 QSEIKGTFKHKCSPCD-----TWRYGDSCTG 115
 Db 93 DILVXDEMLKNSIECDLLESLNRDQNLNKTITVLDLQHTGRGDKYVWFCYMKKCY 152
 QY 116 FPHNLTWESKQYCTDMNATLKIDNRNIVEYIKARTIIL---RWGLSQKSNVW 170
 Db 153 FVMDRKTWSCGKQACSSSLILKIDDEDELKPLQ---LVVPSDCWGLSDNNKKDW 208
 QY 171 KWEDG--SVTSNMFLEDDGKGNMCAVFNHGMPTFCEKHYLMEERXAGMTKVPQ 227
 Db 209 AWDNRPSTKALNTGKNIRPDG---GCMILSTRLDNGNCDVYFICIGK-----RLDK 259
 QY 228 LP 229
 Db 260 FP 261

RESULT 30

C type lectin, B locus - chicken
 C:Species: Gallus gallus (chicken)
 C>Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
 C:Accession: T29141
 R:Xilne, S.; Kaufman, J.; Beck, S.
 Submitted to the EMBL Data Library, May 1998
 A:Description: DNA sequencing and analysis of the chicken major histocompatibility comp

C:Comment: Two types of rat hepatic lectin have been identified, RH-1 and RH-2/3, having
C:Comment: After removal of sialic acid monomers from the complex carbohydrate moieties
C:Comment: The unusual orientation of this protein across the membrane is postulated to
C:Keywords: glycoprotein, lectin, receptor, transmembrane protein

A:Accession: 23/1: 62/1: 94/1: 118/1: 147/1: 197/3: 233/2

C:Superfamily: hepatic lectin; C-type lectin homology

F:2-284/Product: hepatic lectin #status predicted <MAM>

F:40-60/Domain: intracellular #status predicted <INT>

F:61-284/Domain: extracellular #status predicted <EXT>

F:153-276/Domain: C-type lectin homology <LCH>

F:15,76,146/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match

Best Local Similarity 11.5%; Score 145.5; DB 1; Length 284;

Matches

44; Conservative 23; Mismatches 82; Indels 17; Gaps 6;

Db 115 LREDHSLHLHVQVSDVRLSCQMAALRGNSERIC--CPINWVEYBSQVWSSSVK 172

Qy 62 LQDENENRTGTLQOLAKRFQYVVKSELEKTFKHKSPCDTNWEYVGDSCYGFPRHNL 121

Db 122 TWESQYCTDMATLTKIDNRIVEXYKRT-HLRWGLSRQKSNVWKMEDSVISE 180

Db 173 PMTEADRYCQLENAHLVVTWSEORFVQOMGPIINTWIGLTDQ--NGPWKWDGTDY-E 229

Qy 181 NMEFPLEDGK-----GNMNCAYF-HNGHGFPCENKHYLCERKAG 221

Db 230 TGRKMRFPQPDWYGHGAGGSDCAHFTTGDGMNDVCRPRYRWCEITLG 231

RESULT 33

Ly-49G.2 antigen - mouse

N:Alternate names: Ly-49E

C:Species: Mus musculus (house mouse)

C>Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 01-Dec-2000

A:Accession: I49053; I49115

R:Smith, H.R.; Karlhofer, F.M.; Yokoyama, W.M.

J. Immunol. 153, 1068-1079, 1994

A:Title: Ly-49 multigene family expressed by IL-2-activated NK cells.

A:Reference number: I49049; MUID:94300068; PMID:8027540

A:Accession: I49053

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-267 <RES>

A:Cross-references: EMBL:U0094; NID:9533495; PIDN:AA50222.1; PID:9533496

R:Brennan, J.; Mager, D.; Jefferies, W.; Takei, F.

J. Exp. Med. 180, 2287-2295, 1994

A:Title: Expression of different members of the Ly-49 gene family defines distinct natu

A:Reference number: I49114; MUID:95053763; PMID:764501

A:Accession: I49115

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-43, 'Q', 45-267 <RES>

A:Cross-references: EMBL:U12890; NID:9602409; PIDN:AA58703.1; PID:9602410

C:Gene: Ly49G.4

C:Superfamily: natural killer cell receptor P1; C-type lectin homology

Query Match 11.5%; Score 145; DB 2; Length 267;

Best Local Similarity 24.1%; Pred. No. 1.7e-05;

Matches 57; Conservative 42; Mismatches 88; Indels 50; Gaps 12;

Qy 30 WRVMAILLILC--VGMVGVVAGVSWVQRY-----LQDE-- 65

Db 43 WKIVVAGLGLLILVTVALLATITFQSSQCKHEIQLNCHDNKSPQSDVNLKDELL 102

Qy 66 ----NENRGT--LQOLAKRFQYVVKSELEKTFKHKSPCDTNWEYVGDSCYGF 116

Db 103 RNKSIIECRGNDLBSLSDQNRW--YSEYTK-TFSDSSQHGIRGFEKXWFCYKCYE 158

Qy 117 PPHNLTWESQYCTDMATLTKIDNRIVEXYK-ARTHLRWGLSRQKSNVWKMEDG 175

Db 159 NMDKRTMSCKQTQGISLTKIDNEDLTKLQNLAPEDISWIGLSYNKKCMWIDN 218

Qy 176 --SVISENMEFF-LEDEKGNANCAVFNHGNHPTCEENKHYLCERKAGTVDQLP 229

Db 219 GSKLALNTTKYNIDGU-----CWSLSKRLNNGODSKYIICGR-----RLDKFP 266

RESULT 34

Ly49C - mouse

C:Species: Mus musculus (house mouse)

C>Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 19-May-2000

A:Accession: I49058

R:Wong, S.; Freeman, J.D.; Kelleher, C.; Mager, D.; Takei, F.

J. Immunol. 147, 1417-1423, 1991

A:Title: Ly-49 multigene family: New members of a superfamily of type II membrane prote

A:Reference number: I49058; MUID:91332459; PMID:1869832

A:Accession: I49058

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-288 <RES>

A:Cross-references: EMBL:U10304; NID:9500643; PIDN:AA19052.1; PID:9500644

C:Superfamily: natural killer cell receptor P1; C-type lectin homology

Query Match

Best Local Similarity 11.4%; Score 144; DB 2; Length 280;

Matches

49; Conservative 38; Mismatches 90; Indels 56; Gaps 8;

Qy 30 WRVMAILLILC--VGMVGVVAGVSWVQRYLQDENENRTGTLQOLAKRFQYVVK 87

Db 43 WKIVVAGLGLLILVTVALLATITFQSSQCKHEIQLNCHDNKSPQSDVNLKDELL 95

Qy 88 SELKTFKHKSPC-----DYNMRYGDS 112

Db 96 SSIEMEMLNKSSSEKALNDSLHYLNREQRCLARKTYVLDQSNKKGQVSEYVFCQGMK 155

Qy 113 CYGFPRHNLTWESQYCTDMATLTKIDNRIVEXYKRT-HLRWGLSRQKSNVWKMEDSVISE 171

Db 156 CYFTMDCKKNGCQICODVNLTKIDNDELFSLQDLORNYWISLTHRSK---- 211

Qy 172 WEDGVSISENMEFPLEDGKGN-----MNCAYFNHGNHPTCEENKHYLCERK 219

Db 212 -EESQIGRPFRK-LDSARNVPRKQCAVYSSTEDDCARHHCCEKX 262

RESULT 35

A49707

C:Species: Oryctolagus cuniculus (domestic rabbit)

C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999

A:Accession: A49707

R:Jamneau, G.; Ancian, P.; Barthelin, J.; Lazdunski, M.

J. Biol. Chem. 269, 1575-1578, 1994

A:Title: Cloning and expression of a membrane receptor for secretory phospholipases A-2

A:Reference number: A49707; MUID:94124484; PMID:8294398

A:Accession: A49707

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-1458 <LNM>

A:Cross-references: GB:U03455; NID:9456375; PIDN:AA48402.1; PID:9456376

C:Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II r

C:Keywords: glycoprotein, receptor, skeletal muscle, repeat repeat; transmembrane prote

F:176-217/Domain: fibronectin type II repeat homology <2FI>

F:376-499/Domain: C-type lectin homology <LCH>

F:956-1094/Domain: C-type lectin homology <LCH2>

Query Match

Best Local Similarity 23.7%; Pred. No. 0.00015;

Matches

42; Conservative 32; Mismatches 82; Indels 21; Gaps 6;

Qy 55 SYMGRNYQDENENRTGTLQOLAKRFQYVVKSELEKTFKHKSPCDTNWEYVGDSCY 114

Db 333 SPM2PAM---RSRNCSTIPYICCKKLNVDEIVEKDAWK-VYATDCPPGAPYHRCY 388
 QY 115 GFFRNLWESKQYCTDMATLKDNNIVEYI-----KARTHLIEWGKSPK 166
 Db 389 KLQEKETWNEALHSLSTSLIDIGSLAEVEFVTLIGNENAST-----WIGLSSNTP 444
 QY 167 NFWKWKEDSVSENFEELED---GKGNMCAVFNHGMH--PTCEKHYLMCE 218
 Db 445 PVSEFWMSGSSVIFTNMHTLEPOLFPNSQOLCVSAEQSGHWKVTDCETHTHYVCK 501

RESULT 36

149052
 Ly-493.1 antigen - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 19-May-2000
 C/Accession: I49052
 R/Smith, H.R.; Karhofer, F.M.; Yokoyama, W.Y.
 J. Immunol. 153, 1068-1079, 1994
 A>Title: Ly-49 multigene family expressed by IL-2-activated NK cells.
 A/Reference number: I49049; MUID:94300068; PMID:8027540
 A/Accession: I49052
 A/Status: preliminary; translated from GB/EMBL/DBJ
 A/Molecule type: mRNA
 A/Residues: 1-280 <RES>
 A/Cross-references: EMBL:U10093; NID:G533493; PIDN:AAA50221.1; PID:G533494
 C/Superfamily: natural killer cell receptor p1; C-type lectin homology

Query Match 11.2%; Score 141.5; DB 2; Length 280;
 Best Local Similarity 21.1%; Pred. No. 3.7e-05;
 Matches 53; Conservative 45; Mismatches 80; Indels 65; Gaps 10;

QY 30 WRVVALILILIC-VGVVGLVALGMSVMQRY-----LODE-- 65
 Db 43 WKIVIAAGIILCPILVVALIATIPQHSQKHELEGTLANCHNCSTPGSDVNLKELL 102
 QY 66 -----NENR-----TGTLQQLAKRQCQYVVKQSEIKGTFKHKCSPC 102
 Db 103 RNKSIIECPGNDLLESIRQDNWYSETKTFPSDSQHTGVHERPISKAEGKRGF----- 157
 QY 103 DTNRYYGDSYGFPRNLWESKQYCTDMATLKDNNIVEYI-KARTHLIEWGL 161
 Db 158 EKYVFCYGIKQYTNMRKRTWSGCKQTCQISLSLKLIDNDELKFTQNLAPSDISWIGL 217
 QY 162 SRQKSNVYWKEDG-SVISENMFEL-LEDGKGNMCAVFNHGMHPTCEKHYLMCE 218
 Db 218 SYDNKKDDWVWDGSPKALNTTKYVIRDGL-----CMSLSTRLDNGDDCKSYICTCGK 273
 QY 219 KAGMTKVDOLP 229
 Db 274 -----RUDKPP 279

RESULT 37

T34115
 hypothetical protein C25B8.4 - Caenorhabditis elegans
 C/Species: Caenorhabditis elegans
 C/Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 18-Feb-2000
 C/Accession: T34115
 R/Wilcox, L.
 Submitted to the EMBL Data Library, December 1995
 A/Reference number: Z21479
 A/Accession: T34115
 A/Status: preliminary; translated from GB/EMBL/DBJ
 A/Molecule type: DNA
 A/Residues: 1-262 <MIL>
 A/Cross-references: EMBL:U41556; PIDN:AA070872.1; GSPDB:GN00028; CESP:C25B8.4
 A/Experimental source: strain Bristol N2; clone C25B8
 C/Genetics:
 A/Gene: CESP:C25B8.4
 A/Map position: X
 A/Introns: 74/1; 104/3; 156/3; 195/2

Query Match 11.2%; Score 141; DB 2; Length 262;
 Best Local Similarity 22.4%; Pred. No. 3.8e-05;
 Matches 53; Conservative 31; Mismatches 65; Indels 88; Gaps 11;

QY 29 WRVVALILILICGMV--VGLVALGIV-----SYMORYLODENENRTGT 72
 Db 51 YFRFKVLLVAAGFFSTRQVLEFWSYKDFGTNAFTDISLDQRQHYHD---FPTGT 107
 QY 73 LQQLAKRQCQYVVKQSEIKGTFKHKCSPCDTNRYGDSYGFPRNLWESKQYCTD 132
 Db 108 -----CDGKWRPESDSCTWIFQHQSTAEKRCYE 138
 QY 133 MNTLIKIDNNIVEYIARHTL-----IKVGLSR---QKSNVYWKEDSVSENFEE 184
 Db 139 KNATLFFVNSQD--EMDAVREHPQGTGTWIGLVRFTEFKSQDAPINQTBGAVNPTLN 196
 QY 185 FL-----EDGKGNM-NCA-----YHNGMHPPTCEKHYLMCE 218
 Db 197 WLIRPYKPVSGMSALANCAHPSAALNWDASAVTYFP-----CSFKPYSTICER 246

RESULT 38

T28081
 hypothetical protein ZK896.7 - Caenorhabditis elegans
 C/Species: Caenorhabditis elegans
 C/Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 29-Oct-1999
 C/Accession: T28081
 R/Barlow, K.
 Submitted to the EMBL Data Library, November 1996
 A/Reference number: Z20466
 A/Accession: T28081
 A/Status: preliminary; translated from GB/EMBL/DBJ
 A/Molecule type: DNA
 A/Residues: 1-380 <MIL>
 A/Cross-references: EMBL:Z82288; PIDN:CAH03324.1; GSPDB:GN00022; CESP:ZK896.7
 A/Experimental source: clone ZK896
 C/Genetics:
 A/Gene: CESP:ZK896.7
 A/Map position: 4
 A/Introns: 33/2; 72/1; 227/3; 240/3; 274/1; 328/3; 350/3

Query Match 11.1%; Score 140; DB 2; Length 380;
 Best Local Similarity 29.5%; Pred. No. 7e-05;
 Matches 33; Conservative 19; Mismatches 52; Indels 8; Gaps 3;

QY 107 RYVGDSCYGFPRNLWESKQYCTDMATLKDNNIVEYI-KARTHLIR-----WV 159
 Db 26 RFIQTRCYAFVSKKHTYNTAKEXCDHSGYSLATVDALINSPLASSAATIFGSGNQGFWI 87
 QY 160 GLSRQKSNVYWKEDSVSENFEELEDGKGNMCAVFNHGMHPTCEKHYLMCE 211
 Db 88 GLSRKDYELFNWDDGLIVSYTNFEAGFPNKGQFVAENVNGRWQ-TLAEHK 138

RESULT 39

S48719
 phospholipase A(2) receptor protein - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 07-May-1995 #sequence_revision 21-Jul-1995 #text_change 20-Jun-2000
 C/Accession: S48719
 R/Higashino, K.; Ishizaki, J.; Kishino, J.; Ohara, O.; Arite, H.
 Eur. J. Biochem. 225, 375-382, 1994
 A>Title: Structural comparison of phospholipase A(2)-binding regions in phospholipase A
 A/Reference number: S48719; MUID:95010128; PMID:7925459
 A/Accession: S48719
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-1487 <HIC>
 A/Cross-references: GB:D30779; NID:G1375042; PIDN:BA06443.1; PID:G691754
 C/Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II r
 F;181-222/Domain: fibronectin type II repeat homology <2FI>
 F;380-503/Domain: C-type lectin homology <LCH>

Query Match	11.0%	Score 139	DB 2	Length 1487
Best Local Similarity	26.5%	Pred. No. 0.0004		
Matches 53	Conservative 34	Mismatches 69	Indels 44	Gaps 14

```

QY      41  CVCNVMVGLVALLGMSVWQCNRYLODEHNENTGTLQOLARPCQYVXK---OSBLKGTGRKH  97
Dp      617  CV-VVAGSGSLGMEV-----KDCSDFK-----IWSLCKTPVKWKTBLERMPFH  662
QY      98  KCSPPDNTNMYEYD--SCYGFPRH-----NLTWESKQYCTDMNATLXK--IENRNV-  146
Dp      663  ---PCVWMDSATATGLASCQFPRHSEKQVLMKRSRZALNCFCEPFGHLASFAHIEENFPV  719
QY      147  EYIKARTHLIR---WVGLSRQKSNEV--WKWEDGSVISENMFE---FLEDGKNMNA-  186
Dp      720  ELLHSKFNMQEHOFOFNIIGNRRNPLNAGSAMMSDSPVSEFLDNAVFEEDAK---NCAV  776
QY      197  YFENGKQKHPTECNKRYLMC  216
Dp      777  YKANKTLLPNSCNASKREMIC  796

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RESULT 40

hepatic lectin H1 - human
 N:Alternate names: asialoglycoprotein receptor H1 (ASGP-H1)
 C:Species: Homo sapiens (man)
 C:Date: 31-Mar-1988 #sequence_revision 31-Mar-1988 #text_change 22-Jun-1999
 C:Accession: A22509
 R:Spies, M./Schwartz, A.L.; Lodish, H.F.
 J. Biol. Chem. 260, 1979-1982, 1985
 A:Title: Sequence of human asialoglycoprotein receptor cDNA: an internal signal sequence
 A:Reference number: A22509; MUID:55130911; EUID:2982798
 A:Accession: A22509
 A:Molecule type: mRNA
 A:Residues: 1-231 <SPI>
 A:Cross-references: GB:MI0058; NID:g179078; PID:AAA5785.1; PID:g179079
 C:Comment: This receptor is expressed in mammals exclusively in hepatic parenchymal cells
 C:Comment: By homology with the R1 receptor, the initiator Met is removed after translation
 C:Comment: A cytoplasmic serine residue is phosphorylated.
 C:Genetics:
 A:Gene: GDB:ASGR1
 A:Cross-references: GDB:118754; OMIM:109360
 A:Map position: 17p13-17p11
 C:Superfamily: hepatic lectin; C-type lectin homology
 C:Keywords: endocytosis; glycoprotein; lectin; phosphoprotein; receptor; transmembrane p
 F:2-291/Product: hepatic lectin H1 #status predicted <MAT>
 F:2-40/Domains: intracellular #status predicted <INT>
 F:41-59/Domains: transmembrane #status predicted <TM>
 F:60-291/Domains: extracellular #status predicted <EXT>
 F:154-277/Domains: C-type lectin homology <LDH>
 F:79,147/Binding site: carbohydrate (Asn) (covalent) #status predicted

```

Query Match      11.0% Score 138.5; DB 1; Length 291;
Best Local Similarity 22.3%; Pred. No. 7.1e-05;
Matches 60; Conservative 44; Mismatches 84; Indels 81; Gaps 15;

QY 19 LVSVGPAASSFWKRYMALILILCY-----GMVYGHVAL 51
      |:::|::|
Db 43 LLSLDG-----LSLLLVVVCVIGSQNSQLQELRLGRLRETFANFASPEAQYKGLSTQ 94
      |:::|::|

QY 52 G-----IWSVQCNLYQDENENRITGLQLAKRF-----QYVYKSGELKGT 94
      |:::|::|

Db 95 GGVNRGRKSLBESQLEKQKQ-KDLSSEDSILLIHY-KQFVSDLRSLSCQ---MALQGG 148
      |:::|::|

QY 95 KKHKSEPCCTNMYRYGDCYCGFFPHNLTWEEKSQCYCTDNNAITLKIENRNIYEVYIKARTH 154
      |:::|::|

Db 149 SEKTC--CPVNVWEHRSQYWFERSGKAMADADNYCLEDNAHLVYVMSWEKQFVQ--H 203
      |:::|::|

QY 155 LI-----RWGLSLSPKSNBYWKMEDGYSI-----ENNFEPLEDS-KNNMCNAYF-HN 200
      |:::|::|

Db 204 HIGPVVYIMGLHEQ--NGPMKAVDGTIDYELFGCKKWRPEQPDWMZGHSLGGGEQCAHETDD 261
      |:::|::|

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```

QY      201 GKHEPTFCENKHYLMCEKCAKMTKVDLP 229
      |||::|||::|||
Db      262 GRWDDVQCQRPYRWCEET--LDKASQEP 288

```

RESULT 41

lymphocyte early activation antigen A1M/CD69 - human
 C:Species: Homo sapiens (man)
 C:Date: 30-Sep-1993 #sequence revision 20-Aug-1994 #text change 08-Oct-1999
 C:Accession: JH0822; 156167; S60753
 C:Lopez-Cabrera, M.; Santis, A.G.; Fernandez-Ruiz, E.; Blacher, R.; Esch, F.; Sanchez-Me
 U. Exp. Med. 178, 537-547, 1993
 A:Title: Molecular cloning, expression, and chromosomal localization of the human earlie
 miting receptors.
 A:Reference number: JH0822; M01D:93340630; PMID:8340758
 A:Accession: JH0822
 A:Molecule type: mRNA
 A:Residues: 1-199 <LOP>
 A:Cross-references: GB:822576; NID:G937938; P1DN:CA80298.1; P1D:G937939
 A>Note: the authors translated the codon CAA for residue 110 as Glu
 R:Hamam, U.; Pledig, H.; Strauss, M.
 U. Immunol. 150, 4920-4927, 1993
 A:Title: Expression cloning of the early activation antigen CD69, a type II integral mem
 A:Reference number: 156167; M01D:93260093; PMID:8496554
 A:Accession: 156167
 A:Status: translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-199 <RES>
 A:Cross-references: GB:807555; NID:G291897; P1DN:CAB4359.1; P1D:G291898
 R:Santis, A.G.; Lopez-Cabrera, M.; Hamam, U.; Strauss, M.; Sanchez-Madrid, F.
 Eur. J. Immunol. 24, 1692-1697, 1994
 A:Title: Structure of the gene coding for the human early lymphocyte activation antigen
 eptors.

```

Query Match      10.9%  Score 137.5;  DB: 2;  Length 199;
Best Local Similarity 26.0%;  Pred. No. 5.7e-05;
Matches 32;  Conservative 21;  Mismatches 57;  Indels 13;  Gaps 5;

QY 100 SECDTMRRTYGDSCYGFRRHNLTWESKQYCTDNATLTKTDNRNIVEYK----ARTH. 155
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 83 SSCSEDDWVGQRKCYF-STVKRSMTSAONACSEHGATLAVDSKDNVFLFRYAGREEH- 141
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 156 IRWVGLSRQKSNBEWAKWEDGSVLSNNFEFLFDGKGNMNCAYFENGKMHPTFCENKTYLM 215
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 142 --WVGLKKEEGHP-WKTSNGKEFN-INFNV---TGSDDKCYFLNTEVSSMECEKNLYWI 193
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 216 CER 218
   | :
Db 194 CNK 196

RESULT 42
1535686
IGL-1 - mouse

```

C:Species: Mus sp. (mouse)
 C>Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 19-May-2000
 C/Accession: I55686
 R/Mason, L.H.; Ortaldo, J.R.; Young, H.A.; Kumar, V.; Bennett, M.; Anderson, S.K.
 J. Exp. Med. 182, 293-303, 1995
 A/Title: Cloning and functional characteristics of murine large granular lymphocyte-1:
 A/Reference number: I55686; MIMD:95355829; PMID:7629495
 A/Accession: I55686
 A/Status: Preliminary; translated from GB/EMBL/DBJ
 A/Molecule type: mRNA
 A/Residues: 1-267 <RES>
 A/Cross-references: GB:S78693; MIMD:91041888; PIMD:AA60707.1; PID:91041889
 A/Genes: LGL-1
 C/Superfamily: natural killer cell receptor P1; C-type lectin homology

Query Match 10.9%; Score 137; DB 2; Length 267;
 Best Local Similarity 23.3%; Pred. No. 8.8e-05;
 Matches 56; Conservative 40; Mismatches 88; Indels 56; Gaps 12;

QY 30 WRVALLILLC-VGVVGVVAVLGIWVQPNY-----LQDR-- 65
 DB 43 WKLIYAGIFCFLLVVALATIFGHIOQKHLEFTINCHNGCTTQSDVHLKDBLL 102
 QY 66 -----NENRTG-----TLQDLAKRFQGVVVKSELKGFPG--HKSPCDTNWRYGGSC 113
 DB 103 RNSKIECPGNDLISLNRDQKRW-----YSEFK-TFSDSCQTGAGFEKWFQYGIKC 155
 QY 114 YGFPEHNTWESKQYCTDMNATLKTDRNIVEYK-ARHLIRWVGLSKQKSNVWKW 172
 DB 156 YFPMDRKRWGCGKQTCQISLSLTKIDNDELFLQDLAPSDLSWIGFSDNKKKWAM 215
 QY 173 EDG--SVISENMFEP-LEDGKNNMCAVFHNGKHPFCEKHYLCEKXGKMTQDLR 229
 DB 216 IDNGPSKXLAINTKYNIRDG-----CWSLSKTRLDNDGCGSYICTGK-----RDXKFP 266

RESULT 43

S34198
 IGR_Fc receptor II, low-affinity - rat
 A/Alternate names: CD23; lymphocyte IGE receptor
 C/Species: Rattus norvegicus (Norway rat)
 C/Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 22-Jun-1999
 A/Accession: S34198
 R/Flores-Romo, L.; Shields, J.; Humbert, Y.; Graber, P.; Aubry, J.P.; Gauchat, J.F.; Ayal
 submitted to the EMBL Data Library, June 1993
 A/Description: Inhibition of an in vivo antigen-specific IGE response by antibodies to C
 A/Reference number: S34198
 A/Accession: S34198
 A/Molecule type: mRNA
 A/Residues: 1-309 <FLO>
 A/Cross-references: EMBL:X73579; MIMD:G313672; PIMD:CA51981.1; PID:G313673
 C/Superfamily: IGE receptor II; C-type lectin homology
 C/Keywords: B-cell; glycoprotein; immunoglobulin receptor; macrophage; tandem repeat; ty
 F/1-25/Domain: intracellular #status predicted <INT>
 F/14-22/Region: stop-transfer sequence
 F/24-46/Domain: transmembrane #status predicted <TM>
 F/47-309/Domain: extracellular #status predicted <EXT>
 F/126-309/Product: soluble IGE-binding factor (29K) #status predicted <IGT>
 F/149-309/Product: soluble IGE-binding factor (29K) #status predicted <IGT>
 F/164-283/Domain: C-type lectin homology <LCH>
 F/192-283,260-274/Disulfide bonds: #status predicted

Query Match 10.9%; Score 137; DB 1; Length 309;
 Best Local Similarity 19.5%; Pred. No. 0.0001;

Matches 48; Conservative 49; Mismatches 83; Indels 66; Gaps 11;
 QY 1 MOEDDYITLNTITRPAIVGVPSFMRVVALILILICVGMTVGLVAGVWYQV 59
 DB 82 MGSQDSQLQNTLWEDDLINVASONS-----ELSQML 114
 QY 60 NYLQDE-----NENRTGT-----TLQDLAKRFQGVVVKSELKGFPGKHKQSPCDT 104

DB 115 NTLEDVNVVNSQCNKREPAASDSLKIQEEVANKLMEILMS-----KQTAQNVCPK 166
 QY 105 NRRYYGDSQCYGFPHNTLWESKQYCTDMNATLKTDRN-----IVEYKARHTHIRVWG 160
 DB 167 DWLHQKCYCYFEGBSKCMIAKFTCSLBSGLVSHQKQDPLMQLNKKE--SWIG 223
 QY 161 LSRQKSNVWVKWEDQSVISENMFEPLEDDGKNM--NCAVFFH-NGKMPFCEKXHYL-- 214
 DB 224 LQDANMEGEFVWPDSFVGSNNMNPGEZNNNGQGHDCVMMGSGQWNAFC--ISYLDAN 281
 QY 215 MCERKA 220
 DB 282 VCEQLA 287

RESULT 44

scavenger receptor with C-type lectin type I - human
 C/Species: Homo sapiens (man)
 C/Date: 30-Jun-2001 #sequence_revision 30-Jun-2001 #text_change 30-Jun-2001
 A/Accession: J07595
 R/Nakamura, K.; Funakoshi, H.; Miyamoto, K.; Tokunaga, F.; Nakamura, T.
 Biochem. Biophys. Res. Commun. 280, 1028-1035, 2001
 A/Title: Molecular cloning and functional characterization of a human scavenger recepto
 A/Reference number: J07595; MIMD:21092718; PMID:11162630
 A/Contents: Placenta
 A/Accession: J07595
 A/Molecule type: mRNA
 A/Residues: 1-742 <NAK>
 A/Cross-references: DBJ:AB038518
 C/Comment: This receptor, a member of the scavenger receptor family, belonging to the t
 important role in host defense. It forms a trimer and plays a role in recognizing infec
 C/Genetics:
 A/Genes: scrl-1
 A/Map position: 18p11.32
 C/Keywords: coiled coil; glycoprotein; transmembrane protein
 F/1-39/Domain: cytosolic (amino-terminal) #status predicted <CYT>
 F/16-19/Region: internalization signal YKRF
 F/40-56/Domain: transmembrane #status predicted <TM>
 F/57-112/Domain: extracellular #status predicted <EXT>
 F/113-335/Domain: coiled coil #status predicted <CC>
 F/369-384/Region: serine/threonine-rich #status predicted
 F/443-589/Domain: collagen-like #status predicted <COL>
 F/667-732/Domain: C-type lectin/carbohydrate recognition domain #status predicted <CRD>

Query Match 10.8%; Score 136.5; DB 2; Length 742;
 Best Local Similarity 27.1%; Pred. No. 0.00031;

Matches 35; Conservative 28; Mismatches 51; Indels 15; Gaps 5;
 QY 102 CDTNMYGDSQCYGFPHNTLWESKQYCTDMNATLKTDRNIVEYKAR-----THLI 156
 DB 607 CPDHKNVNFEDKCYFVEKEIFEDATLFCEDSSSHVFNTRRQOMIKKQWGRSH-- 664
 QY 157 RVWGLSRQKSNVWVKWEDG-SVISENMFEPLEDDGKN-----MNCA-YFHNGKMPFCE 209
 DB 665 -WIGLDSREHNMKMLDGTSPDYKWKAGQPDWNGHGHPGDCAGLIYAGWNPQCE 723
 QY 210 NRYHLMCEK 218
 DB 724 DVNMFCEK 732

RESULT 45

J07134
 Agglutinin alpha chain precursor - sharp-nosed viper
 A/Alternate names: fibrinogenolytic venom protein
 C/Species: Agkistrodon acutus (sharp-nosed viper)
 C/Date: 04-Mar-2000 #sequence_revision 04-Mar-2000 #text_change 24-Oct-2000
 A/Accession: J07134; PC7037
 R/Cheng, X.; Qian, Y.; Liu, Q.; Li, B.X.Y.; Zhang, M.; Liu, J.
 Biochem. Biophys. Res. Commun. 265, 530-535, 1999
 A/Title: Purification, characterization, and cDNA cloning of a new fibrinogenolytic veno
 A/Reference number: J07134; MIMD:20025379; PMID:10556903

A:Accession: J07134
 A:Molecule type: mRNA
 A:Residues: 1-152 <CHB>
 A:Cross-references: GB:AF176420
 A:Experimental source: venom gland
 A:Accession: PC7037
 A:Molecule type: protein
 A:Residues: 24-53;84-86;94-125-136-137-152 <CH2>
 C:Superfamily: tetranectin; C-type lectin homology
 C:Keywords: disulfide bond; heterodimer; venom
 F:1-23/Domain: signal sequence #status predicted <SIG>
 F:24-152/Product: agk:sactacin alpha chain #status experimental <MAN>

Query Match 10.8%; Score 136; DB 2; Length 152;
 Best Local Similarity 27.9%; Pred. No. 5.7e-05;
 Matches 41; Conservative 21; Mismatches 53; Indels 32; Gaps 10;

QY 90 LKGFHKHCKSPDINWYDSCYGFRRHNTWESKQYCTDM--NATLKIKNRIVE 147
 DB LSGT-----AADSSGWSYGHCHCYKFKSKWTADASFCTKQVNGHIVSISSGAD 72
 QY 148 YIKARTHLIR-----WVGLSRQKSNFW--KWDGSGVIS--ENMFELDGKGMN 194
 DB 73 FV---AHILAKIKSAKHWIIGLRQKKEKQCSLEWDSISYEWIR--EESK--K 124
 QY 195 CAIFH--NG--RMEPTFCENKHYLMCE 217
 DB 125 CLGVHIEYGFHKWENFYCEQDDPVCE 151

RESULT 46

T14274
 versican precursor, splice form V2 - bovine
 C:Species: Bos primigenius taurus (cattle)
 C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 05-May-2000
 C:Accession: T14274

R:Schmalfeldt, M.; Dours-Zimmermann, M.T.; Winterhalter, K.H.; Zimmermann, D.R.
 J. Biol. Chem. 273, 15758-15764, 1998
 A:Title: Versican V2 is a major extracellular matrix component of the mature bovine brain
 A:Reference number: 217954; MUID:98288320; PMID:9624174
 A:Accession: T14274
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-1643 <SCH>
 A:Cross-references: EMBL:AF060458; NID:93253303; PID:93253304; FIDN:AAC24360.1
 A:Experimental source: Brain
 C:Keywords: glycoprotein
 F:1-20/Domain: signal sequence #status predicted <SIG>
 F:21-1643/Product: versican, splice form V2 #status predicted <MAT>
 F:57,331,352,817,965,1017,1333,1616,1626/Binding site: carbohydrate (asn) (covalent) #sc

Query Match 10.7%; Score 135; DB 2; Length 1643;
 Best Local Similarity 24.6%; Pred. No. 0.001;
 Matches 33; Conservative 22; Mismatches 70; Indels 5; Gaps 3;

QY 102 CDTNWRYYGDSYGFRRHNTWESKQYCTDMNATLKIKNRIVEYIKARTHLIRWGL 161
 DB 1416 CDYGMHFKQGCYKFAHRTWDARBRCLQGAHLTSLSHBEQMFVNRVGHDIQWIGL 1475
 QY 162 SRQKSNFWKWDGSGVIS--ENM-----FEFLDGKGMNCAVFNKGMHPTFCENKHYLM 215
 DB 1476 NDGMFEHDFRWTDGSLQYENMRPNQDPSFFSGEDCVIIMHENGQNDVPC--NYHLT 1533
 QY 216 CERKAGTKVQDLP 229
 DB 1534 YTCCKGTVAAGQRP 1547

RESULT 47

T42389
 versican precursor, splice form V0 - bovine
 A:Alternate names: chondroitin sulfate proteoglycan
 C:Species: Bos primigenius taurus (cattle)

C:Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 05-May-2000
 C:Accession: T42389

R:Schmalfeldt, M.; Dours-Zimmermann, M.T.; Winterhalter, K.H.; Zimmermann, D.R.
 J. Biol. Chem. 273, 15758-15764, 1998
 A:Title: Versican V2 is a major extracellular matrix component of the mature bovine brain
 A:Reference number: 217954; MUID:98288320; PMID:9624174
 A:Accession: T42389
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-3381 <SCH>
 A:Cross-references: EMBL:AF060456; NID:93253299; PID:93253300; FIDN:AAC24358.1
 C:Superfamily: chicken chondroitin sulfate proteoglycan pg-M core protein; C-type lectin
 C:Keywords: chondroitin sulfate proteoglycan; extracellular matrix; glycoprotein
 F:1-30/Domain: signal sequence #status predicted <SIG>
 F:31-3381/Product: versican, splice form V0 #status predicted <MAT>
 F:57,331,352,817,965,1017,1333,1437,1463,1653,1974,2045,2074,2103,2263,2290,2356,24

Query Match 10.7%; Score 135; DB 2; Length 3381;
 Best Local Similarity 24.6%; Pred. No. 0.0023;
 Matches 33; Conservative 23; Mismatches 70; Indels 8; Gaps 3;

QY 102 CDTNWRYYGDSYGFRRHNTWESKQYCTDMNATLKIKNRIVEYIKARTHLIRWGL 161
 DB 3154 CDYGMHFKQGCYKFAHRTWDARBRCLQGAHLTSLSHBEQMFVNRVGHDIQWIGL 3213
 QY 162 SRQKSNFWKWDGSGVIS--ENM-----FEFLDGKGMNCAVFNKGMHPTFCENKHYLM 215
 DB 3214 NDGMFEHDFRWTDGSLQYENMRPNQDPSFFSGEDCVIIMHENGQNDVPC--NYHLT 3271
 QY 216 CERKAGTKVQDLP 229
 DB 3272 YTCCKGTVAAGQRP 3285

RESULT 48

A55535
 versican precursor - mouse
 N:Alternate names: chondroitin sulfate proteoglycan 2; chondroitin sulfate proteoglycan
 versican
 N:Contains: glial hyaluronate-binding protein
 C:Species: Mus musculus (house mouse)
 C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
 C:Accession: A55535

R:Ito, K.; Shimomura, T.; Zako, M.; Ujita, M.; Kikate, K.
 J. Biol. Chem. 270, 958-965, 1995
 A:Title: Multiple forms of mouse PG-M, a large chondroitin sulfate proteoglycan generated
 A:Reference number: A55535; MUID:95122551; PMID:7822336
 A:Accession: A55535
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-2397 <RBS>

A:Cross-references: GB:D16263; NID:9862460; PIDN:BAA03796.1; PID:9862461
 C:Superfamily: versican; C-type lectin homology; complement factor H repeat homology; E
 F:1-20/Domain: signal sequence #status predicted <SIG>
 F:21-1654/Domain: versican #status predicted <MAT>
 F:167-244/Domain: link protein repeat homology <LNK1>
 F:265-346/Domain: link protein repeat homology <LNK2>
 F:2095-2126/Domain: EGF homology <EGF>
 F:2133-2164/Domain: EGF homology <EGF>
 F:2171-2291/Domain: C-type lectin homology <LCH>
 F:2298-2354/Domain: complement factor H repeat homology <FHD>

Query Match 10.6%; Score 134; DB 2; Length 2397;
 Best Local Similarity 24.6%; Pred. No. 0.0019;
 Matches 33; Conservative 23; Mismatches 70; Indels 9; Gaps 3;

QY 102 CDTNWRYYGDSYGFRRHNTWESKQYCTDMNATLKIKNRIVEYIKARTHLIRWGL 161
 DB 2171 CDYGMHFKQGCYKFAHRTWDARBRCLQGAHLTSLSHBEQMFVNRVGHDIQWIGL 2230
 QY 162 SRQKSNFWKWDGSGVIS--ENM-----FEFLDGKGMNCAVFNKGMHPTFCENKHYLM 215
 DB 2231 NDGMFEHDFRWTDGSLQYENMRPNQDPSFFSGEDCVIIMHENGQNDVPC--NYHLT 2286

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OM protein - protein search, using sw model

Run on: December 3, 2003, 08:43:17 ; Search time 17 Seconds
(without alignments)
633.477 Million cell updates/sec

Title: US-09-903-190-97
Perfect score: 1261
Sequence: 1 MODEBYTITNITKTKKALV.....NKHYLMCRKAKMTKVDQJP 229

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 127863 segs, 47026705 residues
Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : SwissProt_41:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	212.5	16.9	179	CD94_MACMU	Q6m29 macaca mula
2	211.5	16.8	216	NKGD_HUMAN	P26718 homo sapien
3	210	16.7	216	NKGD_MACMU	Q6m29 macaca mula
4	204	16.2	301	LECI_RAT	P08290 rattus norv
5	200.5	15.9	301	LECI_MOUSE	P24721 mus musculu
6	195.5	15.5	179	CD94_HUMAN	Q13241 homo sapien
7	194.5	15.4	179	CD94_PANTR	Q9m241 pan troglod
8	187	14.8	223	NK13_RAT	P27471 rattus norv
9	174.5	13.8	207	LECH_CHICK	P02707 gallus gall
10	174	13.8	233	NKGA_HUMAN	P26715 homo sapien
11	170.5	13.5	223	NK12_MOUSE	Q60653 mus musculu
12	167.5	13.3	266	NKRE_MOUSE	Q60653 mus musculu
13	167	13.2	233	NKGA_MACMU	Q6m29 macaca mula
14	166	13.2	233	NKGA_PANTR	Q60651 pan troglod
15	165.5	13.1	263	NKGA_MOUSE	Q60651 mus musculu
16	165	13.1	231	NKGC_HUMAN	P26717 homo sapien
17	162	12.8	231	NKGC_HUMAN	Q6m26 macaca mula
18	160.5	12.7	266	NKRE_MOUSE	Q60653 mus musculu
19	160.5	12.7	306	NKGL_RAT	P49301 rattus norv
20	157.5	12.5	306	NK13_MOUSE	P49300 mus musculu
21	157.5	12.5	304	MMGL_MOUSE	P27811 mus musculu
22	156	12.4	227	NK11_MOUSE	P27811 mus musculu
23	155	12.3	199	CD69_MOUSE	Q07442 homo sapien
24	151.5	12.0	240	NKGE_HUMAN	Q06552 mus musculu
25	151.5	12.0	266	NKRS_MOUSE	Q06552 mus musculu
26	151	12.0	331	FECE_MOUSE	P20693 mus musculu
27	149.5	11.9	220	NK14_MOUSE	P20693 mus musculu
28	149.5	11.9	262	LY44_MOUSE	P20693 mus musculu
29	149	11.8	283	LECH_MOUSE	P34927 mus musculu
30	148.5	11.8	133	LECH_MOUSE	P34927 mus musculu
31	146	11.6	311	LECI_HUMAN	P07307 homo sapien
32	145.5	11.5	283	LECH_RAT	P02706 rattus norv
33	144	11.4	288	NK12_MOUSE	Q60660 mus musculu

34	143.5	11.4	1458	1	PA2E_RABIT	P42660 oryctolagus
35	141.5	11.2	280	1	NK17_MOUSE	Q60654 mus musculu
36	140.5	11.1	240	1	NKGE_PANTR	Q95514 pan troglod
37	138.5	11.0	290	1	LECH_HUMAN	P07306 homo sapien
38	138	10.9	548	1	KUCR_MOUSE	P70194 mus musculu
39	137.5	10.9	199	1	CD69_HUMAN	Q07108 homo sapien
40	135	10.7	3381	1	PGCV_BOVIN	P81282 bos taurus
41	134	10.6	2738	1	PGCV_RAT	Q95514 mus musculu
42	134	10.6	3358	1	PGCV_MOUSE	Q60659 mus musculu
43	134	10.6	3396	1	PGCV_HUMAN	P13611 homo sapien
44	132	10.5	3562	1	PGCV_CHICK	Q09983 gallus gall
45	130	10.3	1456	1	MANR_HUMAN	P22897 homo sapien
46	129.5	10.3	1461	1	PA2R_BOVIN	P49259 bos taurus
47	124.5	9.9	3623	1	FECE_HUMAN	P66734 homo sapien
48	124	9.8	1257	1	PGCN_RAT	P55067 rattus norv
49	124	9.8	166	1	LITB_HUMAN	P48304 homo sapien
50	122	9.7	163	1	V239_FOXPV	P14371 fowlpox vir
51	122	9.7	173	1	LIT2_MOUSE	P22029 bothrops ja
52	121	9.6	133	1	ABAI_HUMAN	P81111 trimeresuru
53	119.5	9.5	131	1	PGCN_HUMAN	O14594 homo sapien
54	119	9.4	148	1	PGCN_HUMAN	C93427 crocatus du
55	118.5	9.4	149	1	CVXB_CRODU	Q92478 homo sapien
56	118.5	9.4	550	1	KUCR_RAT	P10716 rattus norv
57	118.5	9.4	883	1	PGCB_MOUSE	O6361 mus musculu
58	118.5	9.4	883	1	PGCB_MOUSE	P10785 trimeresuru
59	118	9.4	146	1	IXB_TRIPL	P05451 homo sapien
60	118	9.4	152	1	IXA_TRIPL	P22030 bothrops ja
61	118	9.4	165	1	LITB_RAT	P55068 mus musculu
62	118	9.4	166	1	LITB_HUMAN	P06027 anthracis norv
63	117.5	9.3	125	1	BOTA_BOVIN	P17346 megabalanus
64	117	9.2	1258	1	PGCB_MOUSE	P81115 trimeresuru
65	115.5	9.2	883	1	LECE_PANTR	Q93426 crocatus du
66	115	9.1	147	1	LECE_HUMAN	P16112 homo sapien
67	113	9.0	173	1	ABBA_TRIAB	Q26422 carnoscor
68	113.5	9.0	158	1	PGCA_CRODU	P8116 trimeresuru
69	113.5	9.0	2415	1	PGCA_HUMAN	Q28062 bos taurus
70	113.5	9.0	1019	1	LFC_GARRO	P8112 trimeresuru
71	113	8.9	1019	1	ABBS_TRIAB	P8112 trimeresuru
72	112.5	8.9	118	1	PGCB_BOVIN	P21855 mus musculu
73	112.5	8.9	134	1	ABBA_TRIAB	P21855 tachyples
74	111.5	8.8	354	1	CD72_MOUSE	P07898 gallus gall
75	111.5	8.8	1019	1	LFC_FACTR	P8113 trimeresuru
76	111	8.8	2109	1	PGCA_CHICK	P07897 rattus norv
77	111	8.8	125	1	ABBA_TRIAB	P8196 echis carin
78	110.5	8.8	125	1	PGCA_HUMAN	P43137 mus musculu
79	110	8.7	2124	1	EGCH_ECHCA	P8114 trimeresuru
80	108.5	8.6	165	1	LIT1_MOUSE	O75862 homo sapien
81	108	8.6	123	1	ABBA_TRIAB	P13608 bos taurus
82	106.5	8.4	123	1	LEV3_HUMAN	P81509 crocatus ho
83	106.5	8.4	129	1	PGCA_BOVIN	Q28043 canis famli
84	106	8.4	830	1	CHB3_CROHO	P81398 agkistrodon
85	104.5	8.3	117	1	ATRN_MOUSE	P83300 anser anser
86	104.5	8.3	2333	1	PGCA_CANTR	Q95521 trimeresuru
87	104.5	8.3	129	1	RHCR_AGRKA	O61282 mus musculu
88	104.5	8.2	132	1	ACAL_ANSAN	P2465 vaccinia vi
89	103.5	8.2	158	1	LECG_TRIST	P21963 crocatus at
90	103.5	8.2	132	1	PGCA_MOUSE	P21063 vaccinia vi
91	103	8.2	2132	1	VA40_VACCV	P9831 bos taurus
92	102.5	8.1	168	1	LECG_CROAT	P14151 homo sapien
93	102.5	8.1	135	1	VA40_VACCV	O95237 pan troglod
94	102	8.1	168	1	LECG_CROAT	Q28658 macaca neme
95	102	8.1	1450	1	SREJ_STRPU	
96	100.5	8.0	370	1	VA40_VACCV	
97	100.5	8.0	370	1	LEMI_BOVIN	
98	100.5	8.0	372	1	LEMI_HUMAN	
99	100.5	8.0	372	1	LEMI_PANTR	
100	100	7.9	862	1	PGCV_MACNE	

ALIGNMENTS

RESULT 1

CP94_MACMU STANDARD; PRT; 179 AA.
 AC Q9MZK9; Q9MZK9; Q9MZK7; Q9MZK8;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Natural killer cell antigen CD94 (NK cell receptor) (killer cell
 lectin-like receptor subfamily D, member 1).
 GN KLRD1 OR CD94.
 OS Macaca mulatta (Rhesus macaque).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
 OC Cercopitheciinae; Macaca.
 NX NCBI_TaxID=9544;
 [1]
 RP SEQUENCE FROM N.A. (ISOFORMS 1; 2 AND 3).
 RX MEDLINE=20322487; PubMed=10866118;
 RA Labonte M.L., Levy D.B., Letvin N.L.;
 RT "Characterization of rhesus monkey CD94/NKG2 family members and
 RT identification of novel transmembrane-deleted forms of NKG2-A, B, C,
 RT and D";
 RL Immunogenetics 51:496-499(2000).
 [2]
 RP SEQUENCE FROM N.A. (ISOFORM 1).
 RX MEDLINE=21158386; PubMed=11261935;
 RA Kravitz R.H., Grendell R.L., Slukvin I.I., Golos T.G.;
 RT "Selective expression of NKG2-A and NKG2-C mRNAs and novel alternative
 RT splicing of 5' exons in rhesus monkey decidua";
 RL Immunogenetics 53:69-73(2001).
 CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
 CC CLASS I HLA-B MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
 CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH NKG2 FAMILY
 CC MEMBERS.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -1- ALTERNATIVE PRODUCTS:
 CC Event-Alternative splicing; Named isoforms=3;
 CC Name=1; Synonyms=CD94-A;
 CC Name=2; Synonyms=CD94-B;
 CC Name=3; Synonyms=CD94 alt;
 CC IsoId=Q9MZK9-2; Sequence=VSP_003055;
 CC IsoId=Q9MZK9-3; Sequence=VSP_003054;
 CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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 CC -----
 DR EMBL: AF190931; AAF74527.1; -;
 DR EMBL: AF190932; AAF74528.1; -;
 DR EMBL: AF190933; AAF74529.1; -;
 DR EMBL: AF294866; AAG34498.1; -;
 DR EMBL: P22897; IREG.
 DR InterPro: IPR001304; Lectin C.
 DR Pfam: PF00059; Lectin C; 1.
 DR SMART: SM00034; CLECT_1.
 DR PROSITE: PS00615; C TYPE LECTIN 1; FALSE_NEG.
 DR Antigen; Receptor; Glycoprotein; Transmembrane; Signal-anchor; Lectin;
 KW Alternative splicing; Polymorphism.
 FT DOMAIN 1 10
 FT TRANSMEM 1 31
 FT SIGNAL-ANCHOR (POTENTIAL)
 FT CYTOPLASMIC (POTENTIAL)
 FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
 FT (POTENTIAL)
 FT EXTRACELLULAR (POTENTIAL)
 FT DOMAIN 98 179
 FT DISULFID 61 176
 FT DISULFID 89 174
 FT DISULFID 152 166
 FT BY SIMILARITY.
 FT BY SIMILARITY.
 FT BY SIMILARITY.

FT CARBOHYD 83 83 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 132 132 N-LINKED (GLCNAC...) (POTENTIAL).
 FT VARSPLIC 1 34 MAVERKTLIMRLISGLTGLICSLMVAITGLIKNS -> MAA
 FT (in isoform 3).
 FT VARSPLIC 105 105 /FTId=VSP_003054.
 FT L->LQ (in isoform 2).
 FT /FTId=VSP_003055.
 FT Y->D.
 SQ SEQUENCE 179 AA; 20607 MW; 06212B4494527F07 CRC64;
 Query Match 16.9%; Score 212.5; DB 1; Length 179;
 Best Local Similarity 25.3%; Pred. No. 3e-12;
 Matches 49; Conservative 35; Mismatches 91; Indels 29; Gaps 4;
 QY 30 WRVVALILILICVGVVGLVVAIGVSWQSNVYLDENENRITGLQOLAKRCQYVVOSE 89
 DQ 9 WRILISGTLICLSL--NATLGL-----LKNSTKLSVDPAY 44
 QY 90 LKG----TFKHKRSPDDTWRYRGDSQYGFPRNLTWESKQYCTDMATLKIENRNI 145
 DQ 45 TPGNFILOKSDSCSCHEKRWGVRNCYFISSHEKTWNSRHFCAQSKSLQLQNRDE 104
 QY 146 VEYIKARTHLIRWYGLSRKSNVYKWDSDVSENMFEELDKGMNCAAFYINGMHP 205
 DQ 105 LDFMSSQHFY-WIGLSYSEHTAWLWENQSALSYQYFSPFETPKPCNCLAVNSKVALD 163
 QY 206 TPCENKRYLMCEER 219
 DQ 164 ESCETKRYIKCOQ 177
 RESULT 2
 ID NKG2D_HUMAN STANDARD; PRT; 216 AA.
 AC P26718; Q9NR41;
 DT 01-AUG-1992 (Rel. 23, Created)
 DT 01-AUG-1992 (Rel. 23, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE NKG2-D type II integral membrane protein (NKG2-D activating NK
 DE receptor) (NK cell receptor D).
 GN NKG2D.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=91178434; PubMed=2007850;
 RA Houchins J.P., Yabe T., McSherry C., Bach F.H.;
 RT "DNA sequence analysis of NKG2, a family of related cDNA clones
 RT encoding type II integral membrane proteins on human natural killer
 RT cells";
 RL J. Exp. Med. 173:1017-1020(1991).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=98350122; PubMed=9683661;
 RA Glienke J., Sobanoy Y., Brostjan C., Steffens C., Nguyen C.,
 RA Leherich H., Hoter E., Francis F.;
 RT "The genomic organization of NKG2C, B, F, and D receptor genes in the
 RT human natural killer gene complex";
 RL Immunogenetics 48:163-173(1998).
 RN [3]
 RP SEQUENCE FROM N.A.
 RA Kotkapalli R., Kusmartseva I., Loughnan T.P., Jr.;
 RT "Identification and characterization of the NKG2D gene from large
 RT granular lymphocytic leukemia (LGL) cells";
 RL Submitted (DEC-2001) to the EMBL/Genbank/DBJ databases.
 RN [4]
 RP SEQUENCE FROM N.A., AND VARIANT THR-72.
 RX MEDLINE=21623889; PubMed=11751968;
 RA Shum B.P., Flodin L.R., Muller D.G., Rajalingam R., Khakoo S.I.,
 RA Cleand S., Gethlein L.A., Ueberberg M., Parham P.;
 RT "Conservation and variation in human and common chimpanzee CD94 and

```
RT NKG2 genes."
RL J. Immunol. 168:240-252 (2002).
CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
CC CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
DR EMBL; X54870; CAA3652.1; -.
DR EMBL; AJ001687; CAA04925.1; -.
DR EMBL; AJ001688; CAA04925.1; JOINED.
DR EMBL; AJ001689; CAA04925.1; JOINED.
DR EMBL; AF461811; AAU65253.1; -.
DR EMBL; AF260135; AAF66973.1; -.
DR EMBL; AF260136; AAF66974.1; -.
DR PIR; P03375; P03375.
DR PIR; 1HYR; 23-MAY-01.
DR PDB; 1KCG; 09-JAN-02.
DR GO; GO:0005887; C:Integral to plasma membrane; TAS.
DR GO; GO:0004872; P:receptor activity; TAS.
DR GO; GO:0006960; P:antimicrobial humoral response (sensu Inver. . .); TAS.
DR GO; GO:0007165; P:signal transduction; TAS.
DR InterPro; IPR002353; AntiFreezeII.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C TYPE LECTIN 1; FALSE_NEG.
DR PROSITE; PS50041; C TYPE LECTIN 2; 1.
KW Receptor; Transmembrane; Multigene family; Signal-anchor; Lectin;
KW Glycoprotein; Polymorphism; 3D-structure.
FT DOMAIN 1 51
FT DOMAIN 52 72
FT DOMAIN 73 216
FT DOMAIN 98 213
FT DISULFID 99 110
FT DISULFID 127 211
FT DISULFID 189 203
FT CARBOHYD 131 131
FT CARBOHYD 163 163
FT CARBOHYD 202 202
FT VARIANT 72 72
FT SEQUENCE 216 AA; 25274 MW; C22F6BD53D7800B CRC64;
Query Match 16.8%; Score 211.5; DB 1; Length 216;
Best Local Similarity 29.0%; Pred. No. 4,6e-12;
Matches 51; Conservative 35; Mismatches 57; Indels 33; Gaps 7;
QY 48 LVALGIVSWQGRNYLDENENRTGLTQOLAKRFQCYVVKQSEKLGFKGKSCPDNTMR 107
DB 68 IIMVAIWSAVFLNSL-----FNQEV-QIPLTESY-----CGCPCKNWI 104
QY 108 YVGGSCGFFPRHNLTWESKQCYCTDMATILKTI---DNKNIVETIKARTHLIRVGLSRQ 164
DB 105 CYKNKNCQPFDESQWYESQASCSQNASLKYSKDQDLKLKLVK-----YHMGGLVHI 160
QY 165 KSNVWKEWEDGSVISENMFEELEDGKNMCA-YFHNKGKXHPFCEKHTLMCRK 219
DB 161 PTNGSWQWEDGSISLRYLLTIEMQKG--DCALYASSFKGITEGCTPNVIYICMR 214
RESULT 3
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NKGD_MACMU
ID NKGD_MACMU STANDARD; PRT; 216 AA.
AC Q5MZU7;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE NKG2-D type II integral membrane protein (NKG2-D activating NK
DE receptor) (NK cell receptor D).
GN NKGD.
OS Macaca mulatta (Rhesus macaque).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
OC Cercopithecinae; Macaca.
OX NCBI_TaxID=9544;
RN [1]
RP SEQUENCE FROM N.A.
RA MEDLINE=20322487; Pubmed=10866118;
RX Labonte M.L., Levy D.B., Lervin N.L.;
RT "Characterization of rhesus monkey CD94/NKG2 family members and
RT identification of novel transmembrane-deleted forms of NKG2-A, B, C,
RT and D."
RL Immunogenetics 51:496-499 (2000).
CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
CC CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.
CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
DR EMBL; AF190943; AAF74539.1; -.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C TYPE LECTIN 2; 1.
KW Receptor; Transmembrane; Multigene family; Signal-anchor; Lectin;
KW Glycoprotein; Polymorphism.
FT DOMAIN 1 51
FT DOMAIN 52 72
FT DOMAIN 73 216
FT DOMAIN 98 213
FT DISULFID 99 110
FT DISULFID 127 211
FT DISULFID 189 203
FT CARBOHYD 115 115
FT CARBOHYD 131 131
FT CARBOHYD 163 163
FT CARBOHYD 202 202
FT SEQUENCE 216 AA; 25075 MW; A44883F31400DEAC CRC64;
Query Match 16.7%; Score 210; DB 1; Length 216;
Best Local Similarity 28.3%; Pred. No. 6,3e-12;
Matches 54; Conservative 38; Mismatches 61; Indels 38; Gaps 9;
QY 38 LILIC-VGVVGV--LVALGIVSWQGRNYLDENENRTGLTQOLAKRFQCYVVKQSEKLGK 92
DB 53 LFPCCFIAYVAMGIRFIWTVMSAVFLNSH-----FNQEV-QIPLTE 93
QY 93 TFFGKHCSPDDTWRYGDSYGFPRHNLTWESKQCYCTDMATILKTI---DNKNIVETI 149
DB 94 SY-----CGCPCKNWI CYKNKNCQPFDESQWYESQASCSQNASLKYSKDQDLKLIV 149
QY 150 KARTHLIRVGLSRQSKNSVWKEWEDGSVISENMFEELEDGKNMCA-YFHNKGKXHPFCE 208
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Db 150 KS----YHMGVLHPIPGNSQWEDGSLSPNLTITIMQKG--DCALYNASTKGIENC 203

QY 209 ENKHYLMCKR 219

Db 204 SINTYICWQR 214

RESULT 4

LECT_RAT STANDARD; PRT; 301 AA.

AC P08250;

DT 01-AUG-1988 (Rel. 16, Created)

DT 01-NOV-1990 (Rel. 08, Last sequence update)

DT 30-MAY-2000 (Rel. 39, Last annotation update)

DE Asialoglycoprotein receptor R2/3 (Hepatic lectin 2/3) (RHL-2) (ASGP-R) (ASGP).

GN ASGR2 OR ASGR-2.

OS Rattus norvegicus (Rat).

OC Bkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.

OX NCBI_TaxId=10116;

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=8725785; PubMed=3600647;

RA McPhaul M., Berg P.;

RT "Identification and characterization of cDNA clones encoding two homologous proteins that are part of the asialoglycoprotein receptor.";

RT MoJ. Cell. Biol. 7:1841-1847(1987).

RN [2]

RP SEQUENCE FROM N.A.

RX MEDLINE=87250656; PubMed=3597443;

RA Halberg D.F., Weger R.B., Farrell D.C., Hildreth J., Quesenberry M.S., Loeb J.A., Holland E.C., Drickamer K.;

RT "Major and minor forms of the rat liver asialoglycoprotein receptor are independent galactose-binding proteins. Primary structure and glycosylation heterogeneity of minor receptor forms.";

RT J Biol. Chem. 262:9828-9838(1987).

RL [3]

RN [3]

RP SEQUENCE FROM N.A.

RX STRAIN=Sprague-Dawley; TISSUE=Liver;

RX MEDLINE=89170119; PubMed=3234178;

RA Sanford J.F., Elliott R.W., Doyle D.;

RT "Asialoglycoprotein receptor genes are linked on chromosome 11 in the mouse.";

RL DNA 7:721-728(1988).

RN [4]

RP SEQUENCE OF 201-301.

RX MEDLINE=8411554; PubMed=6319386;

RA Drickamer K., Mamou J.F., Bins G., leung J.O.;

RT "Primary structure of the rat liver asialoglycoprotein receptor. Structural evidence for multiple polypeptide species.";

RL J. Biol. Chem. 259:770-776(1984).

CC -1- FUNCTION: MEDIATES THE ENDOCYTOSIS OF PLASMA GLYCOPROTEINS TO WHICH THE TERMINAL SIALIC ACID RESIDUE ON THEIR COMPLEX CARBOHYDRATE MOETIES HAS BEEN REMOVED. THE RECEPTOR RECOGNIZES TERMINAL GALACTOSE AND N-ACETYLGLACTOSAMINE UNITS. AFTER LIGAND BINDING TO THE RECEPTOR, THE RESULTING COMPLEX IS INTERNALIZED AND TRANSPORTED TO A SORTING ORGANELLE, WHERE RECEPTOR AND LIGAND ARE DISASSOCIATED. THE RECEPTOR THEN RETURNS TO THE CELL MEMBRANE SURFACE.

CC -1- SUBCELLULAR LOCATION: Type II membrane protein.

CC -1- TISSUE SPECIFICITY: EXPRESSED EXCLUSIVELY IN HEPATIC PARENCHYMAL CELLS.

CC -1- MISCELLANEOUS: CALCIUM IS REQUIRED FOR LIGAND BINDING.

CC -1- MISCELLANEOUS: TWO TYPES OF RAT HEPATIC LECTIN HAVE BEEN IDENTIFIED, RHL-1 AND RHL-2/3, HAVING A RELATIVE ABUNDANCE OF 4:1. RHL-2 AND RHL-3 ONLY DIFFERS IN THEIR CARBOHYDRATE STRUCTURES.

CC -1- SIMILARITY: Contains 1 C-type lectin family domain.

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CC -----

DR EMBL: M6347; AAA42038.1; -

DR EMBL: U02762; AAA41522.1; -

DR EMBL: X07636; CAA30476.1; -

DR PIR: B28462; INRT2.

DR HSSP: P06734; 1HLI.

DR InterPro: IPR002353; Antifreeze1.

DR InterPro: IPR001304; Lectin_C.

DR InterPro: IPR005640; Lectin_N.

DR Pfam: PF00059; Lectin_C; 1.

DR Pfam: PF03954; Lectin_N; 1.

DR PRINTS: PR00356; ANTI-FREEZE11.

DR SMART: SM00034; CLECT; 1.

DR PROSITE: PS00615; C-TYPE LECTIN 1; 1.

DR PROSITE: PS00641; C-TYPE LECTIN 2; 1.

KW Lectin; Glycoprotein; Receptor; Endocytosis; Transmembrane; Calcium; Signal-anchor; Phosphorylation.

KW CYTOPLASMIC (POTENTIAL).

FT DOMAIN 59 79

FT TRANSMEM 1 58

FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN) (POTENTIAL).

FT DOMAIN 80 301

FT DOMAIN 169 295

FT DISULFID 170 181

FT DISULFID 198 293

FT DISULFID 271 285

FT CARBOHYD 97 97

FT CARBOHYD 119 119

FT CARBOHYD 165 165

FT CONFLICT 153 153

FT CONFLICT 202 202

FT CONFLICT 260 260

SEQUENCE 301 AA; 34943 MW; 3C2315E642D71279 CRC64;

Query Match 16.2%; Score 204; DB 1; Length 301;

Best Local Similarity 24.6%; Pred. 3.2e-11;

Matches 71; Conservative 40; Mismatches 98; Indels 80; Gaps 11;

QY 3 DEDGYTLNKTTRKPAVSGPSSFWRY-----MALTLITCYMVGVALG 52

Db 24 EDSGSHVQNRITNPFWGQPPRPQRLCSKFRSLALANILLVVICVSSQSMQ 83

QY 53 I-----NSVQNR-----NYQDENRRTGLQOLARFCQYVVKOSILK 92

Db 84 LQKPFWTLKELTSLNFSFTTLMEKALDSHGSNDNLTSEITLKK-----KQKDIXA 136

QY 93 TF-----KSHKSPDCTWRYGDSGCFERRNLWERS 126

Db 137 DSHTLFHLKHPDLRLTLTQLAFPLSNTEC--CPVNWVBGSGCYMFSRGLTWABA 194

QY 127 KQYCTDMNATLTKLKNRNIVEY--IKAPTHLRWVGSRSQKSNVWKMEDGSVLSNNFEF 185

Db 195 DQCCQHEIALILVINSRBEQFVFKRGAFLHIGLIDKGS--MKVVDGTEVRNPKW 252

QY 186 L-----EDGKNMNA--YFHNGKMEPTCEKHYIMGRKAKMT 223

Db 253 AFTQPDNQCQHBEG--GSEDCAEILISGLWMDNCCQVQNRWACERKRDIT 300

RESULT 5

LECT_MOUSE STANDARD; PRT; 301 AA.

AC P24721;

DT 01-MAR-1992 (Rel. 21, Created)

DT 01-MAR-1992 (Rel. 21, Last sequence update)

DT 30-MAY-2000 (Rel. 39, Last annotation update)

DE Asialoglycoprotein receptor 2 (Hepatic lectin 2) (MHL-2) (ASGP-R) (ASGP).

GN ASGR2 OR ASGR-2.

OS Mus musculus (Mouse).

OC Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6; TISSUE=Liver;
 RX MEDLINE=91027942; PubMed=2223088;
 RA Sanford J.P., Doyle D.;
 RT "Mouse asialoglycoprotein receptor cDNA sequence: conservation of
 RT receptor genes during mammalian evolution.";
 RL Biochim. Biophys. Acta 1087:259-261(1990).
 CC -1- FUNCTION: MEDIATES THE ENDOCYTOSIS OF PLASMA GLYCOPROTEINS TO
 CC WHICH THE TERMINAL SIALIC ACID RESIDUE ON THEIR COMPLEX
 CC CARBOHYDRATE MOIETIES HAS BEEN REMOVED. THE RECEPTOR RECOGNIZES
 CC TERMINAL GALACTOSE AND N-ACETYLGLACTOSAMINE UNITS. AFTER LIGAND
 CC BINDING TO THE RECEPTOR, THE RESULTING COMPLEX IS INTERNALIZED AND
 CC TRANSPORTED TO A SORTING ORGANELLE, WHERE RECEPTOR AND LIGAND ARE
 CC DISSOCIATED. THE RECEPTOR THEN RETURNS TO THE CELL MEMBRANE
 CC SURFACE.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -1- TISSUE SPECIFICITY: EXPRESSED EXCLUSIVELY IN HEPATIC PARENCHYMAL
 CC CELLS.
 CC -1- MISCELLANEOUS: CALCIUM IS REQUIRED FOR LIGAND BINDING.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -----
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 CC -----
 DR EMBL: X53042; CAA37211.1; -
 DR PIR: S13165; S13165.
 DR HSSP: P06734; 1HL1.
 DR MGI: MGI:88082; Asgr2.
 DR InterPro: IPR002353; Antifreeze1.
 DR InterPro: IPR001304; Lectin_C.
 DR InterPro: IPR005640; Lectin_N.
 DR Pfam: PF00059; Lectin_C; 1.
 DR Pfam: PF03954; Lectin_N; 1.
 DR PRINTS: PR00356; ANTIFREEZE1.
 DR SMART: SM00034; CLECT; 1.
 DR PROSITE: PS00615; C TYPE LECTIN 1; 1.
 DR PROSITE: PS00641; C TYPE LECTIN 2; 1.
 DR Lectin; Glycoprotein; Receptor; Endocytosis; Transmembrane;
 KW Calcium; Signal anchor; Phosphorylation.
 FT DOMAIN 1 58
 FT TRANSMEM 59 79
 FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
 FT (POTENTIAL).
 FT EXTRACELLULAR (POTENTIAL).
 FT DOMAIN 169 295
 FT DISUFID 170 181
 FT DISUFID 198 293
 FT DISUFID 271 285
 FT CARBOHYD 97 97
 FT CARBOHYD 165 165
 FT CARBOHYD 298 298
 FT N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 301 AA; 34907 MW; 3A29F1AFA8F298 CRC64;
 Query Match 15.9%; Score 200.5; DB 1; Length 301;
 Best Local Similarity 31.2%; Pred. No. 6.6e-11;
 Matches 48; Conservative 24; Mismatches 61; Indels 21; Gaps 5;

QY 190 KANMCAVFNHGMHPTPCENKHYLMCCERAKGWT 223
 Db 267 GGEDCAEITISDGHWNDFCQVNRWCEKRNIT 300
 RESULT 6
 ID CD94 HUMAN STANDARD; PRT; 179 AA.
 AC Q13241; Q43321; Q43773; Q9UB53; Q9UBQ0;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Natural killer cells antigen CD94 (NK cell receptor) (killer cell
 DE lectin-like receptor subfamily D, member 1) (Kp43).
 GN KLRD1 OR CD94.
 OS Homo sapiens (human).
 OC Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A. (ISOFORM 1).
 RC TISSUE=Blood;
 RX MEDLINE=96011948; PubMed=7589107;
 RA Chang C., Rodriguez A., Carretero M., Lopez-Botet M., Phillips J.H.,
 RA Lanier L.L.;
 RT "Molecular characterization of human CD94: a type II membrane
 RT glycoprotein related to the C-type lectin superfamily.";
 RL Eur. J. Immunol. 25:2433-2437(1995).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Placenta;
 RX MEDLINE=98139529; PubMed=9472066;
 RA Rodriguez A., Carretero M., Glenske J., Bellon T., Ramirez A.,
 RA Leirauch H., Francis F., Lopez-Botet X.;
 RT "Structure of the human CD94 C-Type lectin gene.";
 RL Immunogenetics 47:305-309 (1998).
 RN [3]
 RP SEQUENCE FROM N.A. (ISOFORM 2).
 RA Biasoni R.;
 RL Submitted (JUN-1997) to the EMBL/GenBank/DBJ databases.
 RN [4]
 RP SEQUENCE FROM N.A. (ISOFORM 3).
 RX MEDLINE=98267245; PubMed=9601951;
 RA Furukawa H., Yabe T., Watanabe K., Miyamoto R., Akaza T., Tadokoro K.,
 RA Tohma S., Inoue T., Yamamoto K., Iuji T.;
 RT "An alternatively spliced form of the human CD94 gene.";
 RL Immunogenetics 48:87-98(1998).
 CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
 CC CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
 CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH NKG2 FAMILY
 CC MEMBERS.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -1- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=3;
 CC Name=1; Synonyms=CD94-A;
 CC IsoId=Q13241-1; Sequence=Displayed;
 CC Name=2; Synonyms=CD94-B;
 CC IsoId=Q12241-2; Sequence=VSP_003053;
 CC Name=3; Synonyms=CD94 alt;
 CC IsoId=Q13241-3; Sequence=VSP_003052;
 CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -1- DATABASE: NAME=PROW; NOTE=CD guide CD94 family.
 CC WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd94.htm".
 CC -----
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 CC -----

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DR EMBL: U30610: AAC50291.1; -.
DR EMBL: Y14287; CAA74663.1; -.
DR EMBL: Y14288; CAA74663.1; JOINED.
DR EMBL: AJ000673; CAA04230.1; -.
DR EMBL: AJ000001; CAA03845.1; -.
DR EMBL: AB009597; BAA24450.1; -.
DR EMBL: AB010084; BAA24451.1; -.
DR PDB: 1B6F; 15-JUN-99.
DR Genew: HGNC:6378; KLRD1.
DR MIM: 602894; -.
DR GO: GO:0005886; C:Plasma membrane; TAS.
DR GO: GO:0004888; F:antimicrobial receptor activity; TAS.
DR GO: GO:0006960; P:antimicrobial humoral response (secretory); TAS.
DR GO: GO:0007166; P:cell surface receptor linked signal transdu.; TAS.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_C; 1.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS00615; C-TYPE LECTIN 1; FALSE_NEG.
DR PROSITE: PS00041; C-TYPE LECTIN 2; 1.
DR Antigen: Receptor; Glycoprotein; Transmembrane; Signal-anchor; Lectin;
KW Alternative splicing; 3D-structure.
FT DOMAIN 1 31
FT TRANSMEM 10 CYTOPLASMIC (POTENTIAL).
FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
FT (POTENTIAL).
FT DOMAIN 98 176
FT DOMAIN 61 172 EXTRACELLULAR (POTENTIAL).
FT DISULFID 89 174 C-TYPE LECTIN (LONG FORM).
FT DISULFID 152 166 BY SIMILARITY.
FT CARBOHYD 83 166 BY SIMILARITY.
FT CARBOHYD 132 132 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPLIC 1 34 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT (in isoform 3).
FT /FTid=VSP_003052.
FT /FTid=VSP_003053.
FT /FTid=VSP_003053.
SQ SEQUENCE 179 AA; 20497 MW; 1884D99E8D9583A7 CRC64;

Query Match 15.5%; Score 195.5; DB 1; Length 179;
Best local similarity 24.6%; Pred. No. 1e-10;
Matches 48; Conservative 37; Mismatches 79; Indels 31; Gaps 6;

QY 30 WRNALILILICGVGVGVALGIVSWQRYVLDQENENRTGTLQQLAKRCQYVVKOSE 89
DB 9 WRLISGTLGICLSL---MATLGI-----LKNSTKXISIEPAF 44
QY 90 LKG---TFKGHKSPCDTWNRYGDSYGFRRNLTWBESKQYCTDMNATLTKIDNANI 145
DB 45 TPGPIELQKSDSCSCQCKWGYRCNCFIISSEQKTNESRHLCAQSKSLDLOMTDE 104
QY 146 VEVYIARHLIRWGLSRQKSNVWVKMEDGSVISNMFEFLDQKNNNC-VYFNGKQH 204
DB 105 LDFMKS-SQGFYWLISYEHTAWLWENGSLSOYLPSPET-PTNYQCIATYNGNAL 162
QY 205 PTFCENKHYLMCEK 219
DB 163 DESCEDKRYICKQ 177

RESULT 7
ID CD94_PANTR STANDARD; PRT; 179 AA.
AC O9MZ41;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Natural killer cells antigen CD94 (NK cell receptor) (Killer cell
DE lectin-like receptor subfamily D, member 1).
GN KLRD1 OR CD94.
OS Pan troglodytes (Chimpanzee).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
OX NCBI_TaxID=9598;

```

```

RN [1]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RX MEDLINE=20350666; PubMed=10894168;
RA Khakoo S.I., Rajalingam R., Shum B.P., Weidenbach K., Flodin L.,
RA Muir D.G., Canavez F., Cooper S.L., Valiente N.M., Lanier L.L.,
RA Parham P.;
RT "rapid evolution of NK cell receptor systems demonstrated by
RT comparison of chimpanzees and humans.";
RL Immunity 12:687-698(2000).
RN [2]
RP ALTERNATIVE SPLICING.
RX MEDLINE=21623889; PubMed=11751968;
RA Shum B.P., Flodin L.R., Muir D.G., Rajalingam R., Khakoo S.I.,
RA Cleland S., Guechein L.A., Thiberg M., Parham P.;
RT "conservation and variation in human and common chimpanzee CD94 and
RT NKg2 genes.";
RL J. Immunol. 168:240-252(2002).
CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
CC CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH NKg2 FAMILY
CC MEMBERS.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- ALTERNATIVE PRODUCTS:
CC Event-Alternative splicing; Named isoforms=2;
CC Comment-Additional isoforms seem to exist;
CC Name=1; Synonyms=CD94-A;
CC Name=2; Synonyms=CD94-B;
CC Name=2; Synonyms=CD94-B;
CC IsoId=O9MZ41-1; Sequence=Displayed;
CC IsoId=O9MZ41-2; Sequence=VSP_003056;
CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
DR EMBL: AF269354; AA86964.1; -.
DR HSSP: P22897; IREG.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_C; 1.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS00615; C-TYPE LECTIN 1; FALSE_NEG.
DR PROSITE: PS00041; C-TYPE LECTIN 2; 1.
KW Antigen; Receptor; Glycoprotein; Transmembrane; Signal-anchor; Lectin;
KW Alternative splicing.
FT DOMAIN 1 10
FT TRANSMEM 10 CYTOPLASMIC (POTENTIAL).
FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
FT (POTENTIAL).
FT DOMAIN 98 176
FT DOMAIN 61 172 EXTRACELLULAR (POTENTIAL).
FT DISULFID 89 174 C-TYPE LECTIN (LONG FORM).
FT DISULFID 152 166 BY SIMILARITY.
FT CARBOHYD 83 166 BY SIMILARITY.
FT CARBOHYD 132 132 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPLIC 1 34 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT /FTid=VSP_003056.
FT /FTid=VSP_003056.
SQ SEQUENCE 179 AA; 20493 MW; 7244D99E8D9587E7 CRC64;

Query Match 15.4%; Score 194.5; DB 1; Length 179;
Best local similarity 23.7%; Pred. No. 1.3e-10;
Matches 46; Conservative 37; Mismatches 82; Indels 29; Gaps 4;

QY 30 WRNALILILICGVGVGVALGIVSWQRYVLDQENENRTGTLQQLAKRCQYVVKOSE 89
DB 9 WRLISGTLGICLSL---MATLGI-----LKNSTKXISIEPAF 44
QY 90 LKG---TFKGHKSPCDTWNRYGDSYGFRRNLTWBESKQYCTDMNATLTKIDNANI 145

```

Db 45 TPGNFIQLQKSDCCSCQCKWGVYKNCYFISSSQKTMWESRHLCASQKSLQLQNTDE 104
 QY 146 VEYKATHTLIRVYGLSRQKSNVYKWDGVSISENNFEPFEDCKGNMNCAYFFNGKHP 205
 Db 105 LDFWSS-SQCFYWTGLSYSEHETAMLWENGSLQYLPFPSEFTNPKYCIAYNENGALD 163
 QY 206 TFCENKHYLMGERK 219
 Db 164 ESECDKNRYICKQQ 177

RESULT 8

NR13_RAT STANDARD; PRT; 223 AA.
 AC P27471;
 DT 01-AUG-1992 (Rel. 23, Created)
 DT 01-AUG-1992 (Rel. 23, Last sequence update)
 DT 01-JUN-1994 (Rel. 29, Last annotation update)
 DE Natural killer cell surface protein P1-3.2.3 (NKR-P1 3.2.3) (Antigen 3.2.3).
 OS Rattus norvegicus (Rat).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_Taxid=10116;
 RN [1]
 RP MEDLINE=90378305; PubMed=2399464;
 RA Giorda R., Rudert W.A., Vavassori C., Chambers W.H.,
 RA Hiseord J.C., Trucco M.;
 RT "NKR-P1, a signal transduction molecule on natural killer cells.";
 RL Science 249:1298-1300(1990).
 CC -1- FUNCTION: MEDIATES TRANSMEMBRANE SIGNALING IN NATURAL KILLER
 (NK) CELLS AND SO MAY ACT AS A RECEPTOR ABLE TO SELECTIVELY
 TRIGGER NK CELL ACTIVITY.
 CC -1- SUBUNIT: Homodimer.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
 CC -1- MISCELLANEOUS: LIGAND BINDING MAY BE CALCIUM DEPENDENT.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.

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 CC or send an email to license@isb-sib.ch).
 CC -----
 DR EMBL; M62891; AAA41710.1; -;
 DR PIR; A35917; A35917.
 DR HSSP; P22897; 1BEG.
 DR InterPro; IPR002353; Antifreeze1.
 DR InterPro; IPR01304; Lectin_C.
 DR Pfam; PF00059; Lectin_C_1.
 DR PRINTS; PR00356; ANTIFREEZE11.
 DR SMART; SMO0034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LECTIN_1; FALSE_NEG.
 DR PROSITE; PS00441; C_TYPE_LECTIN_2; 1.
 KW Glycoprotein; Antigen; Transmembrane; Signal-anchor; Lectin.
 KW Glycoprotein; Antigen; Transmembrane; Signal-anchor; Lectin.
 FT DOMAIN 1 43
 FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
 FT TRANSMEM 44 63
 FT (POTENTIAL).
 FT (POTENTIAL).
 FT DOMAIN 64 223
 FT C-TYPE LECTIN (LONG FORM).
 FT DISULFID 93 212
 FT BY SIMILARITY.
 FT DISULFID 94 105
 FT BY SIMILARITY.
 FT DISULFID 122 210
 FT BY SIMILARITY.
 FT CAROXYD 82 202
 FT N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CAROXYD 143 143
 FT N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CAROXYD 169 169
 FT N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 223 AA; 24551 MW; FCD12B21DDPF4330 CR64;

Query Match

14.8%; Score 187; DB 1; Length 223;

Best Local Similarity 22.7%; Pred. No. 7,8e-10;
 Matches 53; Conservative 50; Mismatches 84; Indels 46; Gaps 5;
 QY 8 ITLNKTRKPA-----VSGPASFMRVMAILLICGVAVGLVALGWSVQNR 60
 Db 6 VYLSKPSKTAAGACVSPSPDPACRCPSRLAKLSGAILLVAVGMSILVRV 65
 QY 61 YLQ-----DENKRTGLIQAKFCQYVYQSLKGFPHKHSPPCTNRY 109
 Db 66 LVQKPSVPEPRVLIQENLSKTSBPAK-----KCPKWLSH 101
 QY 110 GDSYCFPRNLNFWESKQYCTDMNATLLKIDNVIYKARTHTLR---WVGLSRQK 166
 Db 102 RDKCFHVSQSTIKESIALCCGKATLLVQDDEIRPLNLTKRISSSFWIGSLTSL 161
 QY 167 NEWKWDGVSISENNFEPEDCKGNMNCAYFFNGKHPFCENKHYLMGERK 219
 Db 162 DENWKWINGSTLNSDVLSTGTDEKD-SCASVSODKYLSESCSDNITWQCKE 213

RESULT 9

LECH_CHICK STANDARD; PRT; 207 AA.
 AC P02707;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 30-MAY-2000 (Rel. 39, Last annotation update)
 DE Hepatic lectin.
 OS Gallus gallus (chicken).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 CC Gallus.
 OX NCBI_Taxid=9031;
 RN [1]
 RP MEDLINE=91268022; PubMed=2050668;
 RA Bezouska K., Crichtow G.V., Rose J.M., Taylor M.E., Drickamer K.;
 RT "Evolutionary conservation of intron position in a subfamily of genes
 RT encoding carbohydrate-recognition domains.";
 RL J. Biol. Chem. 266:11604-11609(1991).
 RN [2]
 RP MEDLINE=81215504; PubMed=7240175;
 RA Drickamer K.;
 RT "Complete amino acid sequence of a membrane receptor for
 RT glycoproteins. Sequence of the chicken hepatic lectin.";
 RL J. Biol. Chem. 256:5827-5839(1981).
 CC -1- FUNCTION: HEPATIC LECTIN IS A MEMBRANE RECEPTOR PROTEIN THAT
 CC RECOGNIZES AND BINDS EXPOSED N-ACETYLGLUCOSAMINE MOIETIES OF
 CC PLASMA GLYCOPROTEINS, THUS MEDIATING THEIR CLEARANCE (FROM THE
 CC CIRCULATION) AND ENDOCYTOSIS.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -1- PTM: SOME OR ALL OF THE CYSTEINES ARE INVOLVED IN DISULFIDE BONDS.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.

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 CC -----
 DR EMBL; M63230; AAA48814.1; -;
 DR EMBL; M63225; AAA48814.1; JOINED.

R		DR EMBL; M63326; AAA48814.1; JOINED.	
R		DR EMBL; M63327; AAA48814.1; JOINED.	
D		DR EMBL; M63328; AAA48814.1; JOINED.	
D		DR EMBL; M63329; AAA48814.1; JOINED.	
D		DR EMBL; U03189; AAA48937.1; - .	
D		DR PIR; A03167; LNCNH.	
D	HSSP; P20693; IHLJ.		
D	IcepPro; IPR001304; Lectin_C.		
DR	Pfam; PF00059; lectin c_1.		
DR	SMART; SMART0034; CRECT; 1..LECTIN_1; 1.		
DR	PROSITE; PS00615; C_Type_Lectin_1; 1.		
KW	Lectin; glycoprotein; Receptor; Endocytosis; Transmembrane;		
SQ	Signal-Anchor; Acetylation.		
FT	MOD_RES	1	ACETYLATION.
FT	DOMAIN	1	CYTOPLASMIC (POTENTIAL).
FT	TRANSMEM	24	SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
FT		23	(POTENTIAL).
FT	DOMAIN	49	EXTRACELLULAR (POTENTIAL).
FT	DISULFID	77	-C-TYPE LECTIN (LONG FORM).
FT	DISULFID	78	BY SIMILARITY.
FT	DISULFID	109	BY SIMILARITY.
FT	DISULFID	179	BY SIMILARITY.
FT	CARDONAD	67	N-LINKED (GLCNAC...)-
SQ	SEQUENCE	207 AA,	IFEB36FDDB3289NDB CRE664;

Query Match 13.8%; Score 174.5; D3 1; Length 207;
Best Local Similarity 25.8%; Pred.No. 9, 7e-09;
Matches 41; Conservative 36; Mismatches 69; Indels 13; Gaps 5

Query 72 TTGQLAKPCQQVYVKKSELKGTFPKH-----KSPEDITWRYYGSCTGFPHNLTWES 126
 : ::::| | | | | | | | | | | | | | | | | | | | | | | | | | | |
 Db 46 SLARIATASSKLSTLOSEPKNPFSSRDILLFCAGASROMEFEEGRCYFSISPMWHKA 105
 : ::||| ||| | | | | | | | | | | | | | | | | | | | | | | | | |
 Qy 127 KGYCDNMATLIKINDRNIVETIKARTELIR-VWGSLROKSSENVKWEGSYSEMPEP 185
 : ::||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 Db 106 KAECERMHSHLIIDSYAKONYVMRTRENRFWIGLTDSNGCGNQWDGT-DTSSSFVF 164
 : ::||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 Qy 186 LEDGGK----NNCAAY-FHNKKMHPFCENKHYNCEP 218
 : ::||| : | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 Db 165 WKGEZENNRCFNEDCAFHWTSQMVDNYCVTCGVYCCKE 203
 : ::||| : | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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RESULT 10
NKGA_HUMAN
ID   NKGA_HUMAN          STANDARD;             PRT;           233 AA.
AC   P26715;
DT   01-AUG-1992 (Rel. 23, Created)
DD   01-AUG-1992 (Rel. 23, last sequence update)
DE   15-Sep-2003 (Rel. 42, last annotation update)
DN   NKG2-A/NKG2-B type II integral membrane protein (NKG2-A/B activating
      NK receptor) (NK cell receptor A).
GN   KLRF1 OR NKG2A.
OS   Homo sapiens (human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CO   Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX   NCBI_TaxId=9606;
RN   [1]
RP   SEQUENCE FROM N.A. (ISOFORMS NKG2-A AND NKG2-B).
RX   MEDLINE=91178434; PubMed=2007850;
RA   Houchins J.P., Yabe T., McSherry C., Bach F.H.;
RT   "DNA sequence analysis of NKG2, a family of related cdna clones
RT encoding type II integral membrane proteins on human natural killer
RT cells."
RL   J. Exp. Med. 173:1017-1020(1991).
RN   [2]
RP   SEQUENCE FROM N.A. (ISOFORMS NKG2-A AND NKG2-B).
RX   MEDLINE=9637918; PubMed=8753859;
RA   Plougastel B., Jones T., Townsdate J.;
RT   "Genomic structure, chromosome location, and alternative splicing of
RT the human NKG2A gene.";
RL   Immunogenetics 44:286-291(1996).
RN   [3]
```

```

32 SEQUENCE FROM N.A. (ISOFORMS NK62-A AND NK62-B) .
33 MEDLINE=9826068; PubMed=9599306;
34 Plougastel B., Trowsdale J.;
35 "Sequence analysis of a 62-kb region overlapping the human KLRG
36 cluster of genes."
37 Genomics 49:193-199(1998) .
38
39 SEQUENCE FROM N.A.
40 Kuchapalli R., Kumaraseva I., Loughran T.P. Jr.;
41 "Identification and characterization of the NK62A gene from large
42 granular lymphocytic leukemia (LGL) cells."
43 Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
44 [5]
45
46 SEQUENCE FROM N.A. (ISOFORM NK62-B) .
47 TISSUE=Kidney;
48 MEDLINE=22388257; PubMed=12477932;
49 Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
50 Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
51 Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
52 Hopkins R.F., Jordan A., Moore T., Wax S.I., Wang J., Hsieh F.,
53 Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
54 Stepien M., Soares M.B., Bonaldi M.F., Casavant T.L., Scheetz T.E.,
55 Brownstein M.J., Usdin T.B., Tosliyski S., Carrinci P., Prange C.,
56 Rana S.S., Locantello N.A., Peters G.J., Abramson J.A., Gunatirne P.H.,
57 Bosak S.A., McGowan P.U., McKernan K.J., Malek J.A., Gnarathne P.H.,
58 Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Halys S.W.,
59 Vilation D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
60 Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
61 Walling M., Madan A., Young A.C., Shavchenko Y., Bouffard G.G.,
62 Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
63 Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
64 Butterfield J.S.N., Krzywinski M.I., Skalska U., Smalins D.E.,
65 Schmeich A., Schein J.E., Jores S.J.W., Maira M.A.;
66 "Generation and initial analysis of more than 15,000 full-length
67 human and mouse cDNA sequences."
68 Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002) .
69
70 FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
71 CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
72
73 SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.
74
75 STRUCTURAL LOCATION: Type II membrane protein.
76
77 ALTERNATIVE PRODUCTS:
78 Event=Alternative splicing; Named Isoforms=2;
79 Name=NKG2-A;
80 IsoId=p26715-1; Sequence=Displayed;
81 Name=NKG2-B;
82 IsoId=p26715-2; Sequence=VSP 003062;
83
84 TISSUE SPECIFICITY: NATURAL KILLER CELLS.
85
86 SIMILARITY: Contains 1 C-type lectin family domain.
87
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94 or send an email to license@isb-sib.ch) .
95
96 -----
97 EMBL: X54867; CAA38649.1; -
98 EMBL: X54868; CAA38650.1; -
99 EMBL: U54786; AAB17133.1; JOINED.
100 EMBL: U54783; AAB17133.1; JOINED.
101 EMBL: U54784; AAB17133.1; JOINED.
102 EMBL: U54785; AAB17133.1; JOINED.
103 EMBL: AF023840; AAC17488.1; -
104 EMBL: AF061812; AAL65234.1; -
105 EMBL: BC012550; AAB12550.1; -
106 FIR: F10372; P50372.
107 GeneW; HGNC:6374; KLRCL1.
108
109 MIM: 161555; -
110 GO: GO:0005887; C:Integral to plasma membrane; TAS.
111 GO: GO:0004888; F:Transmembrane receptor activity; TAS.
112 GO: GO:0006960; P:Plant-microbial humoral response (sensu Inver. .); TAS.
113 GO: GO:0007166; P:Cell surface receptor linked signal transdu. .; TAS.

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DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_c1.
DR SMART: SM00034; CLECT_1.
DR PROSITE: PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.
DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
DR Receptor; Transmembrane; Multigene family; Signal-anchor; Lectin;
KW Glycoprotein; Alternative splicing.
FT DOMAIN 1 70 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 71 93 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
(POTENTIAL).
FT DOMAIN 94 233 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 118 231 C-TYPE LECTIN (LONG FORM).
FT DISULFID 119 130 BY SIMILARITY.
FT DISULFID 147 229 BY SIMILARITY.
FT DISULFID 208 221 BY SIMILARITY.
FT CARBOHYD 102 102 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 103 103 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 151 151 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 180 180 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPIC 96 113 Missing (in isoform NKG2-B).
FT VARSPIC 233 AA; 26287 MW; 1654BD758C81A84 CRC64;

Query Match 13.8%; Score 174; DB 1; Length 233;
Best local Similarity 23.9%; Pred. No. 1.2e-08;
Matches 44; Conservative 28; Mismatches 86; Indels 26; Gaps 4;

QY 36 ILLILCGMVGVALGIMVGMQANILQDENENRTGLQGLARFCQYVVKSELGKTRK 95
Db 75 ILIILICILIMASVTLI--VPISTLIQRHNSSLNTRT-----K 112
QY 96 GHKCSPODTWRYGDSYGFYFHNLTWESKQYCPDMNTLKDINRNVYIKARTHL 155
Db 113 ARAGCGCEENITYSNCSYIGKRTWESLLACTSKSLSDISEMKFLSIISP- 171
QY 156 IRWVGLSRQKSNVWVKWEDGSVTSENNFEFLDEKGNMNCAYPHNGMPTFCENHYLM 215
Db 172 SSWIGVGRNSHHPWVTMNGLAIFKH--ELKSDNMLNCAVLQVNRKLSAQCGSSIIYH 228
QY 216 CERK 219
Db 229 CKRK 232

RESULT 11
NK12_MOUSE STANDARD; PRT; 223 AA.
AC P27812;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Natural killer cell surface protein PI-34 (NKR-PI 34).
GN KIR3IB OR LY55B OR LY55-3.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA MEDLINE=9134956; PubMed=1890421;
RA Giorda R., Trucco M.;
RT "Mouse NKR-PI. A family of genes selective-y coexpressed in adherent
RT lymphokine-activated killer cells."
RT J. Immunol. 147:1701-1708(1991).
RN [2]
RP SEQUENCE OF 1-29 FROM N.A.
RA MEDLINE=9238663; PubMed=517565;
RA Giorda R., Weisberg E.P., Ip T.K., Trucco M.;
RT "Genomic structure and strain-specific expression of the natural
RT killer cell receptor NKR-PI."
RT J. Immunol. 149:1957-1963(1992).
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.

```

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CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
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CC or send an email to license@isd-sib.ch).
CC EMBL; M77677; AAA9823.1; -.
CC EMBL; X64721; CAA45974.1; -.
CC PIR; B46467; B46467.
CC MGI; MGI:107538; Klr1b.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_c1.
DR SMART: SM00034; CLECT_1.
DR PROSITE: PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.
DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
KW Glycoprotein; Antigen; Transmembrane; Signal-anchor; Lectin.
FT DOMAIN 1 43 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 44 63 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
(POTENTIAL).
FT DOMAIN 64 223 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 93 212 C-TYPE LECTIN (LONG FORM).
FT DISULFID 94 105 BY SIMILARITY.
FT DISULFID 122 210 BY SIMILARITY.
FT DISULFID 189 202 BY SIMILARITY.
FT CARBOHYD 81 81 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 169 169 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 186 186 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 223 AA; 25157 MW; 8D04C1DEB83956 CRC64;

Query Match 13.5%; Score 170.5; DB 1; Length 223;
Best local Similarity 26.1%; Pred. No. 2.4e-08;
Matches 61; Conservative 37; Mismatches 87; Indels 49; Gaps 10;

QY 7 YITNL-----KTRPALVSGPASPFWRRVALL-----ILLCGMVGVALGIMV 56
Db 8 YADNLNARIQEPHDSPSLSDPTCRPEMRHRLATFGGGLLVLVAIGCLVLSV 66
QY 57 MGRNYLQ-----DENENRTGLQGLARFCQYVVKSELGKTRK-----PDTWRY 109
Db 67 -QKSSVQKICADVQENRHTTD-----CSVNLBPCQWLSE 101
QY 110 GDSYGFYFHNLTWESKQYCTDMNTLKDIN--RNIVYIKARTHLIRWVGLSRQK 165
Db 102 RDKCFRVFQVSNWTEWGQADCGRKGATLLIQDEELRFLSLIKERKNSF-WIGRFTL 160
QY 166 SNVWVKWEDGSVTSENNFEFLDEKGNMNCAYPHNGMPTFCENHYLMCERK 219
Db 161 PDMNRMWINGTTPNSVLTXTGTDR-NGSCASISGKVTSESCTDNRMICQKE 213

RESULT 12
KIR6_MOUSE STANDARD; PRT; 266 AA.
AC Q60553;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Killer cell lectin-like receptor 6 (T-cell surface glycoprotein
DE LY-49P) (LY49-F antigen).
GN KIR6 OR LY49F OR LY-49F OR LY49-F.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=C57BL/6; TISSUE=Spleen;
RA MEDLINE=9430066; PubMed=8027340;

```

RA Smith H.R.C., Karthofer F.M., Yokoyama W.M.;
 RT "Ly-49 multigene family expressed by IL-2-activated NK cells."
 RL J. Immunol. 153:1068-1079(1994).
 CC -1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.
 CC -1- SUBUNIT: Homodimer; disulfide-linked.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
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 CC
 DR EMBL: U10092; AAA60220.1; -
 DR PIR: I49051; I49051.
 DR MGI: MGI101902; K19a6.
 DR InterPro: IPR001304; Lectin_C.
 DR Pfam: PF00059; Lectin_c/1.
 DR SMART: SM00034; CLECT_1.
 DR PROSITE: PS00615; C TYPE LECTIN 1; FALSE_NEG.
 DR PROSITE: PS50041; C TYPE LECTIN 2; 1.
 KM T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;
 KM Signal-anchor; Lectin; Receptor; Multigene family.
 FT DOMAIN 1 44 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 45 66 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
 FT (POTENTIAL).
 FT DOMAIN 67 266 EXTRACELLULAR (POTENTIAL).
 FT DOMAIN 143 261 C-TYPE LECTIN (LONG FORM).
 FT DISULFID 171 257 BY SIMILARITY.
 FT DISULFID 236 249 BY SIMILARITY.
 FT CARBOHYD 87 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 104 104 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 266 AA; 31269 MW; AD180A9C762F1F6 CRC64;

Query Match 13.3%; Score 167.5; DB 1; Length 266;
 Best Local Similarity 23.7%; Pred. No. 5.5e-08;
 Matches 58; Conservative 40; Mismatches 86; Indels 61; Gaps 11;

27 SFWRVVALILILICVAVVGLVALGI-----WSVGRNY-IOD 64
 Db SVCKQLIVKALIGLIFLLITVAIVAKIROYGHNQIEHTLVNHNCSNMSDPNLS 95
 QY 65 EN-----ENRPTG-T-IQQAKRPGQYVXQSEIKGTGKHKSPCDTN-----WRYGCD 111
 Db 100 EMLTNRSIDRPGNELLESINR-----EQNRGYSEKTDLDSSQDTGTVKYPFCYRT 152
 QY 112 SCVGFPHNLTWBESKQYCTDMNATILKIDNNTVEIKARHLI---RWVGLSRQKSNE 168
 Db 153 KCYFELNKKWTWSSGCKONCHYSLPLVKIDENELKPLQFO--VTPDSYVIGSLYDEKK 210
 QY 169 VMKWDGSSVISENY-----FEFLDGKNNMCAYFHNKMPPTFCENKHYLMCEKKAQMTK 224
 Db 211 EMANIDNGQSLDKIKRKNPKPG-----CVFLSKRLBDTNKSHYICGK-----K 260
 QY 225 VDQLP 229
 Db 261 LDKFP 265

RESULT 13
 NKGA_MACMU STANDARD; PRT; 233 AA.
 AC Q9WZJ3; Q9WZJ3; Q9WZJ3; Q9WZJ3;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE NKG2-A/NKG2-B type II integral membrane protein (NKG2-A/B activating
 DE NK receptor) (NK cell receptor A).
 GN NKG2A.
 OS Macaca mulatta (Rhesus macaque).

CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
 CC OX Ceropithecoidea; Macaca.
 CC NCBI_TaxID=9544;
 RN [1]
 RP SEQUENCE FROM N.A. (ISOBFORMS NKG2-A; NKG2-ADTM; NKG2-B AND NKG2-BDTM).
 RX MEDLINE=20322487; PubMed=10866118;
 RA Labonte M.U., Levy D.B., Letvin N.L.;
 RT Characterization of rhesus monkey CD94/NKG2 family members and
 RT identification of novel transmembrane-deleted forms of NKG2-A, B, C,
 RT and D."
 RL Immunogenetics 53:496-499(2000).
 CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
 CC CLASS I HLA-B MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
 CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -1- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=4;
 CC Name=NKG2-A;
 CC IsoId=Q9WZJ3-1; Sequence=Displayed;
 CC Name=NKG2-B;
 CC IsoId=Q9WZJ3-2; Sequence=VSP_003064;
 CC Name=NKG2-Adtm;
 CC IsoId=Q9WZJ3-3; Sequence=VSP_003063;
 CC Name=NKG2-Bdtm;
 CC IsoId=Q9WZJ3-4; Sequence=VSP_003065;
 CC TISSUE SPECIFICITY: NATURAL KILLER CELLS.
 CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
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 CC
 DR EMBL: AF190979; AAF73835.1; -
 DR EMBL: AF190981; AAF73837.1; -
 DR EMBL: AF190982; AAF73838.1; -
 DR EMBL: AF190984; AAF73840.1; -
 DR HSSP: P22897; 1E6G.
 DR InterPro: IPR001304; Lectin_C.
 DR Pfam: PF00059; Lectin_c/1.
 DR SMART: SM00034; CLECT_1.
 DR PROSITE: PS00615; C TYPE LECTIN 1; FALSE_NEG.
 DR PROSITE: PS50041; C TYPE LECTIN 2; 1.
 KM Receptor; Transmembrane; Multigene family; Signal-anchor; Lectin;
 KM Glycoprotein; Alternative splicing.
 FT DOMAIN 1 70 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 71 93 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
 FT (POTENTIAL).
 FT DOMAIN 94 233 EXTRACELLULAR (POTENTIAL).
 FT DOMAIN 118 231 C-TYPE LECTIN (LONG FORM).
 FT DISULFID 119 230 BY SIMILARITY.
 FT DISULFID 147 229 BY SIMILARITY.
 FT DISULFID 208 221 BY SIMILARITY.
 FT CARBOHYD 102 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 103 103 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 151 151 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT VARSPLIC 63 (in isoform NKG2-Adtm).
 FT VARSPLIC 95 (in isoform NKG2-Bdtm).
 FT VARSPLIC 96 (in isoform NKG2-B).
 FT VARSPLIC 113 Missing (in isoform NKG2-B).
 FT VARSPLIC 112 Missing (in isoform NKG2-Bdtm).
 FT VARSPLIC 112 Missing (in isoform NKG2-Bdtm).
 SQ SEQUENCE 233 AA; 26286 MW; 237B2BE3E489E76 CRC64;

Query Match 13.2%; Score 167; DB 1; Length 233;
 Best Local Similarity 24.3%; Pred. No. 5.3e-08;
 Matches 46; Conservative 26; Mismatches 91; Indels 26; Gaps 4;


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CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=D1;
CC IsoId=Q0651-1; Sequence=Displayed;
CC Name=D2;
CC IsoId=Q0651-2; Sequence=VSP_003068;
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
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CC -----
DR EMBL; U10900; AAA50218.1; -
DR EMBL; U78247; AAC32667.1; -
DR EMBL; AF218073; AAF99592.1; -
DR EMBL; AF218078; AAF99591.1; -
DR PIR; I49049; I49049.
DR MED; MG1.101904; K1tra4.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; FALSE_NEG.
DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.
KW T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;
KW Signal-anchor; lectin; Receptor; Multigene family;
KW Alternative splicing; Polymorphism.
KM DOMAIN 1 44
FT TRANSMEM 45 65
FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
FT (POTENTIAL).
FT EXTRACELLULAR (POTENTIAL).
FT DOMAIN 139 258
FT DISULFID 168 254
FT DISULFID 233 246
FT CARBOHYD 87 87
FT CARBOHYD 104 104
FT CARBOHYD 170 170
FT CARBOHYD 222 222
FT VASPLIC 39 41
FT Missing (in isoform D2).
FT FT=VSP_003068.
FT VARIANT 5 5
FT E->K (IN STRAINS NOD AND NOR).
FT VARIANT 29 29
FT R->W (IN STRAINS NOD AND NOR).
FT VARIANT 32 32
FT E->Q (IN STRAINS NOD AND NOR).
FT VARIANT 35 35
FT R->G (IN STRAINS NOD AND NOR).
FT VARIANT 45 45
FT L->F (IN STRAINS NOD AND NOR).
FT VARIANT 60 60
FT T->I (IN STRAINS NOD AND NOR).
FT VARIANT 79 79
FT K->Q (IN STRAINS NOD AND NOR).
FT VARIANT 132 132
FT Y->S (IN STRAINS NOD AND NOR).
FT VARIANT 189 189
FT L->F (IN STRAINS NOD AND NOR).
SQ SEQUENCE 263 AA; 30872 MW; DDA94DA089A9F42D CRC64;
Query Match 13.1%; Score 165.5; DB 1; Length 263;
Best Local Similarity 22.1%; Pred. No. 8,2e-08;
Matches 58; Conservative 47; Mismatches 86; Indels 71; Gaps 13;

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DB 190 VTPSDSCWITGLSYNDKXKXDWAMIDNRPSKALNTTKYINIRDS----GGMETSKRLDNNY 245
QY 208 CENKHYLMGCRAGMTKVDLP 229
DB 246 CDQSFICIGK-----RLDKFP 262
RESULT 16
NKGC HUMAN
AC F26717; Q43802; Q9NR42;
DT 01-AUG-1992 (Rel. 23, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE NKGC-C type II integral membrane protein (NKGC-C activating NK
DE receptor) (NK cell receptor C).
GN KLRC2 OR NKGC2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxId=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=91178434; PubMed=2207850;
RA Houchins J.P., Yabe T., McSherry C., Bach F.H.;
RA "RNA sequence analysis of NKGC2, a family of related cDNA clones
RT encoding type II integral membrane proteins on human natural killer
RT cells."
RN J. Exp. Med. 173:1017-1020(1991).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=98350122; PubMed=9683661;
RA Glennie J., Sobanov Y., Brostjan C., Steffens C., Nguyen C.,
RA Lehnach H., Hoter B., Francis F.;
RA "The genomic organization of NKGC2, E, F, and D receptor genes in the
RT human natural killer gene complex."
RN Immunogenetics 48:163-173(1996).
RN [3]
RP SEQUENCE FROM N.A.
RX TISSUE=Lymphoid;
RA Blasson R.;
RL Submitted (MAY-1997) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE FROM N.A. AND VARIANTS ASN-2 AND PHE-102.
RX MEDLINE=21623889; PubMed=11751968;
RA Shum B.P., Fiodin L.R., Muir D.G., Rajalingam R., Khakoo S.I.,
RA Cleland S., Guechlein L.A., Uhrberg W., Patnam P.;
RA "Conservation and variation in human and common chimpanzee CD94 and
RT NKG2 genes."
RN J. Immunol. 168:240-252(2002).
RN -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF XHC
RN CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
RN -1- SUBCELLULAR LOCATION: Type II membrane protein.
RN -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
RN -1- SIMILARITY: Contains 1 C-type lectin family domain.
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DR EMBL; X54869; CA38651.1; -
DR EMBL; AJ001684; CA04922.1; -
DR EMBL; Y13055; CA73498.1; -
DR EMBL; AF260134; AAF86972.1; -
DR PIR; PT0374; PT0374.
DR Genew; HGNC:6375; KLRC2.
DR MIM; 602891; -
GO; GO:0005887; C:integral to plasma membrane; TAS.

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[illegible]

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RN [1]
RP SEQUENCE FROM N.A. (ISOFORM H1).
RC STRAIN=C57BL/6 X CBA; Tissue=Lung;
RX MEDLINE=95053763; PubMed=7964501;
RA Brennan J., Mager D., Jellefries W., Takei F.;
RT "Expression of different members of the Ly-49 gene family defines
  distinct natural killer cell subsets and cell adhesion properties."
RL J. Exp. Med. 180:2287-2295(1994).
RN [2]
RP SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING.
RC STRAIN=C57BL/6;
RX MEDLINE=96421544; PubMed=8824161;
RA Silver E.T., Elliott J.F., Kane K.P.;
RT "Alternatively spliced Ly-49D and H transcripts are found in IL-2-
  activated NK cells."
RL Immunogenetics 44:478-482(1996).
CC -1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.
CC -1- SUBUNIT: Homodimer; disulfide-linked.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- ALTERNATIVE PRODUCTS:
  Event=Alternative splicing; Named isoforms=2;
  Name=H1;
  IsoId=Q60682-1; Sequence=displayed;
  Name=H2;
  IsoId=Q60682-2; Sequence=VSP_003071;
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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  -----
CC EMBL; U12889; AAAS6704.1; -
CC EMBL; L78253; AAC32668.1; -
CC PIR; I49114; I49114.
CC MGI; MGI:102968; K1ra8.
CC GO; GO:0009615; P:response to viruses; IDA.
CC InterPro; IPR001304; Lectin_C.
CC DR SMART; SW00034; CLECT; 1.
CC DR PROSITE; PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.
CC DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
CC T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;
  Signal-anchor; Lectin; Receptor; Multigene family;
  Alternative splicing.
CC FT DOMAIN 1 44 CYTOPLASMIC (POTENTIAL).
  TRANSMEM 45 66 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
  (POTENTIAL).
  FT DOMAIN 67 266 EXTRACELLULAR (POTENTIAL).
  FT DOMAIN 143 261 C-TYPE LECTIN (LONG FORM).
  FT DISULFID 171 257 BY SIMILARITY.
  FT DISULFID 236 249 BY SIMILARITY.
  FT CARBOHYD 87 87 N-LINKED (GLCNAC. . .) (POTENTIAL).
  FT CARBOHYD 104 104 N-LINKED (GLCNAC. . .) (POTENTIAL).
  FT VARSPLIC 39 41 Missing (in isoform H2).
  FT FTID=VSP_003071.
SQ SEQUENCE 266 AA: 31393 MW; 3C85A8EF2B3401E2 CRC64;
  Query Match 12.7%; Score 160.5; DB 1; Length 266;
  Best Local Similarity 21.2%; Pred. No. 2.4e-07;
  Matches 53; Conservative 41; Mismatches 79; Indels 77; Gaps 12;

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QY 115 GFRHNLTWESKQYCTDMNLTLEKDNANIVEYIKARTHLI---RWYGLSKQSENYWK 171
DB 156 YFMKRTWSSGCKANCOHYSPVIAKIEDDELUKFI--GRHYLLSYWMLGLSTDKKKKWA 213
QY 172 WEDGSVISENMFEDPEFDKGNNA-----CAYFHNGKMFPTPCENGHYLMCKER 219
DB 214 W-----IHNQSKLDKXIKXKNFTSRQCVFLSKXRIIDTCNTFYICIGK- 259
QY 220 AGMTKVDQLP 229
DB 260 ----KLDKFP 265
  RESULT 19
  MMGL RAT STANDARD; PRT; 306 AA.
  AC P49301;
  DT 01-FEB-1996 (Rel. 33, Created)
  DT 01-FEB-1996 (Rel. 33, Last sequence update)
  DT 28-FEB-2003 (Rel. 41, Last annotation update)
  DE Macrophage asialoglycoprotein-binding protein (W-ASGP-BF) (Macrophage
  DE galactose/N-acetylgalactosamine-specific lectin) (MMGL).
  GN MGL1 OR MGL.
  OS Rattus norvegicus (Rat).
  OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
  OC NCBI_TaxID=10116;
  RN [1]
  RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
  RX MEDLINE=90293078; PubMed=2358462;
  RA Li M., Kurasa H., Itoh N., Yamashita I., Kawasaki T.;
  RT "Molecular cloning and sequence analysis of cDNA encoding the
  RT macrophage lectin specific for galactose and N-acetylgalactosamine."
  RL J. Biol. Chem. 265:11293-11298(1990).
  RN [2]
  RP PRELIMINARY SEQUENCE OF 9-28.
  RX MEDLINE=88339956; PubMed=3421964;
  RA Li M., Kawasaki T., Yamashita I.;
  RT "Structural similarity between the macrophage lectin specific for
  RT galactose/N-acetylgalactosamine and the hepatic asialoglycoprotein
  RT binding protein."
  RL Biochem. Biophys. Res. Commun. 155:720-725(1988).
  CC -1- FUNCTION: RECOGNIZES TERMINAL GALACTOSE AND N-ACETYLGALACTOSAMINE
  UNITS.
  CC -1- SUBUNIT: HOMO-OLIGOMER.
  CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
  CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
  CC -----
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    -----
  CC EMBL; J05495; AAA4216.1; -
  CC PIR; A42230; A42230.
  CC HSP; P06734; HDI.
  CC InterPro; IPR001304; Lectin_C.
  CC InterPro; IPR005640; Lectin_N.
  CC Pfam; PF00059; lectin_C_1.
  CC Pfam; PF03954; lectin_N_1.
  CC SMART; SW00034; CLECT; 1.
  CC DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
  CC DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
  CC T-cell; Glycoprotein; Transmembrane; Calcium; Signal-anchor.
  CC FT DOMAIN 1 37 CYTOPLASMIC (POTENTIAL).
  TRANSMEM 38 58 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
  (POTENTIAL).
  FT DOMAIN 59 306 EXTRACELLULAR (POTENTIAL).
  FT DOMAIN 174 300 C-TYPE LECTIN (LONG FORM).
  FT DISULFID 175 186 BY SIMILARITY.

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Query Match 12.7%; Score 160.5; DB 1; Length 306;
 Best Local Similarity 25.2%; Pred. No. 2.8e-07;
 Matches 41; Conservative 31; Mismatches 72; Indels 19; Gaps 6;

70 TGTLLQALAKPFCQYVYVQKSELKGFPHKQSPCDTMMRYGDSYGFPHNLTMSKQY 129
 145 TDRVQJGKDLKTLTTCGLASLKNNGSAVAC--CPLEWHEHSGSYWFSQSGKWPPEADKY 202
 130 CTDMNATLKIKNENIVEYIKARTL--IYWGSLSHQKSNVAKWEDGSVISENMEFL 186
 203 COLKNSLVVYV--SLAEQNPLOTHMGSVVTWIGLTDQ--NGPRWVDGTYEKGFTHWA 258

QY 187 EDGK-----GNMNCANF-HNGKMHPTFCENKHYLMCEK 219
 Db 259 PKQPDNMYGHGLGGEDCAHFTSDGRWMDVCCQPRWVCEMK 301

RESULT 20
 KLR3 MOUSE
 ID KLR3_MOUSE STANDARD; PRT; 266 AA.
 AC Q64329; Q61154; Q64257;
 DT 15-JUL-1998 (Rel. 36, Created)
 DT 15-JUL-1998 (Rel. 36, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Killer cell lectin-like receptor 3 (T-cell surface glycoprotein
 LY-49C) (LY49-C antigen) (lymphocyte antigen 49C) (565).
 GN KLR3 OR LY49C OR LY-49C.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 CX NCBI_TaxId=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=CB.17;
 RX MEDLINE=95355630; PubMed=7629496;
 RA Stoneman B.R., Bennett M., An J., Chesnut K.A., Makeland E.K.,
 Schaefer J.B., Siciliano M.J., Kumar V., Mathew P.A.,
 "Cloning and characterization of 5B6 (Ly-49C), a receptor molecule
 expressed on a subset of murine natural killer cells.";
 RT J. Exp. Med. 182:305-313 (1995).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6 X CBA; TISSUE=Lung;
 RX MEDLINE=91332459; PubMed=1869832;
 RA Wong S., Freeman J.D., Kelleher C., Mager D., Takei F.,
 "Ly-49 multi-gene family. New members of a superfamily of type II
 membrane proteins with lectin-like domains.";
 RT J. Immunol. 147:1417-1423 (1991).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6, and 129/SvJ;
 RX MEDLINE=95356819; PubMed=7630404;
 RA Held W., Roland J., Raulot D.H.,
 "Allelic exclusion of Ly49-family genes encoding class I MHC-specific
 receptors on NK cells.";
 RT Nature 376:355-358 (1995).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC STRAIN=A/SN;
 RA Sundback J., Karre K., Sentman C.J.,
 Submitted (MAY-1996) to the EMBL/GenBank/DBJ databases.
 RN [5]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6 X CBA; TISSUE=Lung;
 RA Wong S., Freeman J.D., Kelleher C., Mager D., Takei F.,
 Submitted (JUN-1994) to the EMBL/GenBank/DBJ databases.
 RN [6]

RP SEQUENCE FROM N.A.
 RC STRAIN=BALB/c, NZB, C57BL/6, and C57BL/6 X BALB/c;
 RA Mathew P.A., Stoneman E., Bennett M., An J., Chesnut K.A.,
 Makeland E.K., Schaefer J.B., Siciliano M.J., Kumar V.,
 Submitted (FEB-1996) to the EMBL/GenBank/DBJ databases.
 RL FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.
 CC -1- SUBUNIT: Homodimer; disulfide-linked.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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 or send an email to license@isb-sib.ch).

CC EMBL; U09739; AAA86873.1; -
 CC EMBL; U49865; AAA92951.1; -
 CC EMBL; U49866; AAA92952.1; -
 CC EMBL; U49867; AAA92953.1; -
 CC EMBL; U49868; AAA92954.1; -
 CC EMBL; U10305; AAA19053.1; -
 CC EMBL; U56405; AAB19101.1; -
 CC EMBL; U34891; AAA77066.1; -
 CC EMBL; U34892; AAC17703.1; -
 CC PIR; I49059; I49059.
 CC PIR; I49363; I49363.
 CC HSP; P05451; I0DD.
 CC MED; MGI.101905; Klr3.
 CC InterPro: IPR001304; Lectin_C.
 CC Pfam: P50059; Lectin_c; 1.
 CC SMART; SM00615; C TYPE LECTIN 1; FALSE_NEG.
 CC PROSITE; PS00615; C TYPE LECTIN 2; 1.
 CC T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;
 CC Signal-anchor; Lectin; Receptor; Multigene family;
 CC CYTOPLASMIC (POTENTIAL).
 CC SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
 CC TRANSMEM 45 66
 CC DOMAIN 1 44
 CC DOMAIN 45 66
 CC DOMAIN 67 266
 CC DOMAIN 143 261
 CC DISULFID 154 257
 CC DISULFID 171 249
 CC CARBOHYD 79 79
 CC CARBOHYD 87 87
 CC CARBOHYD 104 104
 CC CARBOHYD 113 113
 CC CARBOHYD 160 160
 CC VARIANT 2 2
 CC VARIANT 13 13
 CC VARIANT 22 22
 CC VARIANT 34 34
 CC VARIANT 41 42
 CC VARIANT 60 60
 CC VARIANT 65 66
 CC VARIANT 72 72
 CC VARIANT 85 85
 CC VARIANT 93 93
 CC VARIANT 115 115
 CC VARIANT 117 117

EXTRACELLULAR (POTENTIAL).
 C-TYPE LECTIN (LONG FORM).
 BY SIMILARITY.
 N-LINKED (GLCNAC. . .) (POTENTIAL).
 N-LINKED (GLCNAC. . .) (POTENTIAL).
 N-LINKED (GLCNAC. . .) (POTENTIAL).
 N-LINKED (GLCNAC. . .) (POTENTIAL).
 S-> N (IN STRAINS BALB/C X C57BL/6 AND
 C57BL/6).
 L-> F (IN STRAIN 129/SVJ).
 O-> L (IN STRAINS BALB/C X C57BL/6, NZB,
 129/SVJ AND C57BL/6).
 V-> A (IN STRAINS BALB/C X C57BL/6, NZB,
 129/SVJ AND C57BL/6).
 AP-> VS (IN STRAINS BALB/C X C57BL/6,
 NZB, 129/SVJ AND C57BL/6).
 T-> I (IN STRAINS BALB/C X C57BL/6, NZB,
 129/SVJ AND C57BL/6).
 AV-> T (IN STRAINS BALB/C X C57BL/6,
 NZB, 129/SVJ AND C57BL/6).
 N-> S (IN STRAINS BALB/C X C57BL/6, NZB,
 129/SVJ AND C57BL/6).
 H-> Y (IN STRAINS BALB/C X C57BL/6, NZB,
 129/SVJ AND C57BL/6).
 S-> R (IN NZB AND 129/SVJ).
 T-> L (IN STRAINS BALB/C X C57BL/6, NZB
 AND C57BL/6).
 T-> I (IN STRAIN 129/SVJ).
 E-> D (IN STRAINS BALB/C X C57BL/6 AND
 C57BL/6).

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FT  VAR-LANT  127  127  D -> N (IN STRAINS BALB/C X C57BL/6 AND
FT  VARIANT  129  129  C57BL/6).
FT  VARIANT  131  131  K -> E (IN STRAINS BALB/C X C57BL/6, NZB,
FT  VARIANT  133  133  129/SVJ AND C57BL/6).
FT  VARIANT  133  133  K -> N (IN STRAIN NZB).
FT  VARIANT  146  146  V -> I (IN STRAIN NZB).
FT  VARIANT  151  151  Y -> H (IN STRAINS BALB/C X C57BL/6 AND
FT  VARIANT  151  151  C57BL/6).
FT  VARIANT  174  174  S -> G (IN STRAINS BALB/C X C57BL/6, NZB,
FT  VARIANT  179  179  129/SVJ AND C57BL/6).
FT  VARIANT  189  189  F -> Y (IN STRAINS BALB/C X C57BL/6, NZB,
FT  VARIANT  198  198  129/SVJ AND C57BL/6).
FT  VARIANT  219  219  L -> V (IN STRAINS BALB/C X C57BL/6, NZB
FT  VARIANT  222  222  AND C57BL/6).
FT  VARIANT  226  226  L -> F (IN STRAIN 129/SVJ).
FT  VARIANT  232  232  I -> T (IN STRAINS BALB/C X C57BL/6 AND
FT  VARIANT  247  247  C57BL/6).
FT  VARIANT  251  251  K -> T (IN STRAIN NZB).
FT  VARIANT  260  260  I -> T (IN STRAIN NZB).
FT  VARIANT  266  266  K -> R (IN STRAIN NZB).
SQ  SEQUENCE  266 AA; 31285 MW; 409F61E5D9AD299A CRC64;

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Query Match 12.5%; Score 157.5; DB 1; Length 266;
Best Local Similarity 22.0%; Pred. No. 4.4e-07;
Matches 53; Conservative 33; Mismatches 96; Indels 59; Gaps 10;

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QY  30 WRVVALILLICVGVVGVVVALGIVSWQWRNLYODENENRTGLTQOLAKRFQYVWQSE 89
DB  43 WQIVKVLGLICPLILVAVLAVKIFQYQNHQKQINE---TLNH--HNHCNSMWSQDFN 96
QY  90 LKGG--TPKHKGCSPC-----PDN-----WRYGDSQYX 115
DB  97 LKEMTLNKSIDCRSNETLEYIKREQORMDSKTIVLDSRRDTRGVKYPFCSTKQY 156
QY  116 FPRHNLTWESKQYCTDMNATLTKIDNIVEYIKARTL---RWGLASRQKENEYWK 172
DB  157 FIVNKTWISGCKRANQHSVPILKIEDDEDEKFL--QHIVIPENWIGLSTIDKCKKEMAM 214
QY  173 EDGSVISENM---FELLEDGKGNMCAYPFNKGHPFCENKHYLNCERAPAKMTKVDQL 228
DB  215 IDNGPSKIDMKLRKRNPKSRG---CVFLSKVARIEDIDCNPYYCICGK-----KLDKF 264
QY  229 P 229
DB  265 P 265

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RESULT 21
MMGL MOUSE
ID MMGL_MOUSE STANDARD; PRT; 304 AA.
AC P49300;

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DT 01-FEB-1996 (Rel. 33, Created)
DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Macrophage asialoglycoprotein-binding protein 1 (M-ASGP-BP)
DE (Macrophage galactose/N-acetylgalactosamine-specific lectin) (MMGL).
GN MGL OR MGL.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C3H/HeN;
RX MEDLINE=92268032; PubMed=1587794;
RA Sato M., Kawakami K., Osawa T., Toyoshima S.;

```

```

RT "Molecular cloning and expression of cDNA encoding a galactose/N-
RT acetylgalactosamine-specific lectin on mouse tumoricidal
RT macropages."
RL J. Biochem. 111:331-336(1992).
RN [2]
RP SEQUENCE OF 102-120 AND 137-151.
RC STRAIN=C3H/HeN;
RX MEDLINE=8919765; PubMed=3241002;
RA Oda S., Sato M., Toyoshima S., Osawa T.;
RT "Purification and characterization of a lectin-like molecule specific
RT for galactose/N-acetyl-galactosamine from tumoricidal macropages."
RL J. Biochem. 104:600-605(1988).
CC -1- FUNCTION: RECOGNIZES TERMINAL GALACTOSE AND N-ACETYLGALACTOSAMINE
CC UNITS. MAY PARTICIPATE IN THE INTERACTION BETWEEN TUMORICIDAL
CC MACROPHAGES AND TUMOR CELLS.
CC -1- SUBUNIT: HOMO-OLIGOMER.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- TISSUE SPECIFICITY: IS EXPRESSED ON THE SURFACE OF ACTIVATED
CC MACROPHAGES.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.

```

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DR EMBL; S36676; AAB22171.1; -.
DR PIR; JX0209; JX0209.
DR HSSP; P06734; 1HL1.
DR MGD; MGI:96975; Mgl1.
DR InterPro; IPR002353; Antifreeze1.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR005640; Lectin_N.
DR Pfam; PF00059; Lectin_C/1.
DR Pfam; PF03954; Lectin_N/1.
DR PRINTS; PR00356; ANTIFREEZE1.
DR SMART; SM00034; CLECT_1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_2; 1.
DR Lectin; Glycoprotein; Transmembrane; Calcium; Signal-anchor.
XW DOMAIN 1 35 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 36 56 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
FT DOMAIN 57 304 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 172 298 C-TYPE LECTIN (LONG FORM).
FT DISULFID 173 184 BY SIMILARITY.
FT DISULFID 201 296 BY SIMILARITY.
FT DISULFID 274 288 BY SIMILARITY.
FT CARBOHYD 74 74 N-LINKED (GLCNAC...) (POTENTIAL).
FT CARBOHYD 166 166 N-LINKED (GLCNAC...) (POTENTIAL).
SQ SEQUENCE 304 AA; 34596 MW; 3F79CD12C34F5BC CRC64;

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Query Match 12.5%; Score 157.5; DB 1; Length 304;
Best Local Similarity 20.8%; Pred. No. 5.1e-07;
Matches 61; Conservative 44; Mismatches 95; Indels 93; Gaps 11;

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```

QY  13 KTRKPAIVSVPPASSFWKRVNA-----LILICVGVVGV-----LVAL- 51
DB  14 KTQEP---GKAPDSF---WRILSWTHLIFSLGLSLHLVAVVIGSQNSQRLDGLTURA 70
QY  52 -----GIMSV-----N 57
DB  71 TLIDNTSKIKABFQSLDRAPSPFKGISLKVDEVDHROELQAGRDLISOKTSLSTIYK 130
QY  58 QNNYLODENENRTGLTQOLAKRFQYVWQSELKQTFGKHSKPCDTNWRYYGSCYGF 117
DB  131 3QALKTDLSDLTDEHQDLKRLKALTCQALANKN--NGSEVACCPHLWTHTEHSGCYWFS 188
QY  118 RNLTWESKQYCTDMNATLTKIDNIVEYIKAR--TLILVWGLSRQKSNVWQWEDGS 176

```

Db 189 ESEKSWPEADKCYCKLENSHLVYVNSLBRQNLQRLANVWSIGLITDQ--NGPWENVDGT 246

QY 177 VIS---ENMFEELEDG-----KNNMCAYF-HNGKQHPFCENKHYLMGCRK 219

Db 247 DFEKFKXWAPLDQPDNMFHCGLGSGEDCAITTTGGPMWMDVCCQTFPFCIMCK 299

RESULT 22

NCBI_MOUSE STANDARD; PRT; 227 AA.

AC P27811;

DT 01-AUG-1992 (Rel. 23, Created)

DT 28-FEB-2003 (Rel. 41, Last sequence update)

DE Natural killer cell surface protein p1-2 (NKR-P1.2) (NKR-P1.7).

GN KLRB1A OR LY55A OR LY55.

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_TaxID=10090;

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=91349596; PubMed=1880421;

RA Giorda R.; Trucco M.;

RT "Mouse NKR-P1. A family of genes selectively coexpressed in adherent lymphokine-activated killer cells.";

RL J. Immunol. 147:1701-1708(1991).

RP SEQUENCE FROM N.A.

RX MEDLINE=92013158; PubMed=1680927;

RA Yokoyama W.M., Ryan J.C., Hunter J.J., Smith H.R.C., Stark M., Seaman W.B.;

RT "cDNA cloning of mouse NKR-P1 and genetic linkage with LY-49. Identification of a natural killer cell gene complex on mouse chromosome 6.";

RL J. Immunol. 147:3229-3236(1991).

CC -! FUNCTION: MAY FUNCTION AS SIGNAL-TRANSMITTING RECEPTOR.

CC -! SUBUNIT: Homodimer; disulfide-linked.

CC -! SUBCELLULAR LOCATION: Type II membrane protein.

CC -! TISSUE SPECIFICITY: NATURAL KILLER CELLS.

CC -! SIMILARITY: Contains 1 C-type lectin family domain.

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CC -----

DR EMBL; M76766; AAA39822.1; -

DR EMBL; M77753; AAA39366.1; -

DR PIR; A46467; A46467.

DR HSSP; P22897; IEGG.

DR MGD; MGI:107540; K1tbla.

DR InterPro; IPR002353; AntiFreezeZell.

DR InterPro; IPR001304; Lectin_C.

DR Pfam; PF00059; Lectin_C_1.

DR PRINTS; PR00356; ANTIFREEZE211.

DR SMART; SM00034; CLECT_1.

DR PROSITE; PS00615; C_TYPE_LECTIN_1; FALSE_NEG.

DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

KW Glycoprotein; Antigen; Transmembrane; Signal-anchor; Lectin.

FT DOMAIN 1 42 CYTOPLASMIC (POTENTIAL).

FT TRANSMEM 43 62 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN) (POTENTIAL).

FT DOMAIN 63 227 EXTRACELLULAR (POTENTIAL).

FT DOMAIN 93 212 C-TYPE LECTIN (LONG FORM).

FT DISULFID 94 105 BY SIMILARITY.

FT DISULFID 122 210 BY SIMILARITY.

FT DISULFID 189 202 BY SIMILARITY.

FT CARBOHYD 83 83 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 169 169 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 186 186 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CONFLICT 39 39 S -> L (IN REB.2).

SQ SEQUENCE 227 AA; 25689 MW; 0599A2587DF0B615 CRC64;

Query March 12.4%; Score 156; DA 1; Length 227;

Best Local Similarity 24.6%; Pred. No. 5e-07;

Matches 46; Conservative 39; Mismatches 84; Indels 18; Gaps 5;

QY 37 LILICGVWVGLVALGIWSYWRNYLDENENRTGTLQOLAKRCQYVYKQSEIKTFKG 96

Db 41 LKISGAGLILLVTLIGMSYLVRLVLRQPSIEK-----C-YVLIOENINRTTDC 86

QY 97 HKSPCCTNRYRYGDCSCYGFRRNLTFEESKQYTDKNATLTKDN-----RNVYRYTKAR 152

Db 89 SAKLRCQDWLSHRDKCFHVSQVSNWEEGLVDCDGGATLMLIQDQELRFLDSIEK 148

QY 153 THLIRWYGLSRQKSENVKMKWEDGVISENMFEELEDGKNNMCAYFNGKXHPFCENKH 212

Db 149 YNSF-WIGLKYTLPDMMKWKINGSITLNSDVLKITGDI-E-NDSCAALSGDKYTPESCNSDN 206

QY 213 YLMGCRK 219

Db 207 SWICQKX 213

RESULT 23

NCBI_MOUSE STANDARD; PRT; 189 AA.

AC P37217;

DT 01-OCT-1994 (Rel. 30, Created)

DT 01-OCT-1994 (Rel. 30, Last sequence update)

DT 16-OCT-2001 (Rel. 40, Last annotation update)

DE Early activation antigen CD69.

GN Mus musculus (Mouse).

OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_TaxID=10090;

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=93314711; PubMed=8100776;

RA Ziegler S.F., Ramsdell F., Hjertild K.A., Armitage R.J., Grabstein K.H., Hennen K.B., Farrar T., Farslow W.C., Shevach E.M., Alderson M.R.;

RT "Molecular characterization of the early activation antigen CD69: a type II membrane glycoprotein related to a family of natural killer cell activation antigens.";

RL Eur. J. Immunol. 23:1643-1648(1993).

CC -! FUNCTION: INVOLVED IN LYMPHOCYTE PROLIFERATION AND FUNCTIONS AS A SIGNAL TRANSMITTING RECEPTOR IN LYMPHOCYTES, NATURAL KILLER (NK) CELLS, AND PLATELETS.

CC -! SUBUNIT: Homodimer; disulfide-linked.

CC -! SUBCELLULAR LOCATION: Type II membrane protein.

CC -! TISSUE SPECIFICITY: EXPRESSED ON THE SURFACE OF ACTIVATED T CELLS, B-CELLS, NATURAL KILLER CELLS, NEUTROPHILS AND PLATELETS.

CC -! DEVELOPMENTAL STAGE: EARLIEST INDUCIBLE CELL SURFACE GLYCOPROTEIN ACQUIRED DURING LYMPHOID ACTIVATION.

CC -! INDUCTION: BY THE ACTIVATION OF T LYMPHOCYTES.

CC -! PTM: CONSTITUTIVE SER/TMR PHOSPHORYLATION IN BOTH NATURE THYMOCYTES AND ACTIVATED T LYMPHOCYTES (BY SIMILARITY).

CC -! SIMILARITY: Contains 1 C-type lectin family domain.

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CC -----

DR EMBL; U23638; -; NOT_ANNOTATED_CDS.

DR MGD; MGI:88343; Cd69.

DR InterPro; IPR002353; AntiFreezeZell.

Best Local Similarity 24.7%; Pred. No. 1.4e-06;
Matches 42; Conservative 26; Mismatches 73; Indels 29; Gaps 5

```

QY 3 RVALIIIIIIICVGVVGLVVALGIWVSQVQYJODENENTGTLOQIARFCQYVVKQSEL 90
  :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
Db 70 KLTVEVIGIIC---IYVAWVTKTIVLLPELQNSNSNTGTQ----- 105
QY 91 KGFPGHCKSPCDTNNRYYGDSCYGFPRNLITWEECKOYCTDM--ATLIKIDNRIVEXI 145
  :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
Db 110 ----KAPCGHCPBEWITTYNSCTYIGKERITWEEBLOQCAKSNSSLSIDNEBEMKFL 165
QY 150 KARTHLIRWGLSROKSNBEWKMEDDSVISENNEFELEBQGNKACAYFH 199
  :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
Db 166 -ASTLPSMWIGVFRANSSHHPWTINGLAFKH--ETKDDHAERQACAMH 211

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RESULT 25
KLRS MOUSE

```

DT      01-NOV-1997 (Rel. 35, Created)
DT      01-NOV-1997 (Rel. 35, Last annotation update)
DT      16-OCT-2001 (Rel. 40, Last annotation update)
DE      Killer cell lectin-like receptor 5 (1-cell surface glycoprotein
DE      LY-49E) (LY49-E antigen).
GN      KLRAs OR LY49E OR LY-49E OR LY49-E.
OS      Mus musculus (Mouse).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Rodentia; Sclerothathi; Muridae; Murinae; Mus.
OX      NCBI_TaxId=10090;
RN      (1)
RP      SEQUENCE FROM N.A.
RC      STRAIN=C57BL/6; TISSUE=Spleen;
RX      MEDLINE=94300068; PubMed=8027540;
RA      Smith H.R.C., Karlsruher F.M., Yokoyama W.M.;
RL      "Ly-49 multigene family expressed by IL-2-activated NK cells.";
        J. Immunol. 153:1068-1079 (1994).
CC      -1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.
CC      -1- SUBUNIT: Homodimer; disulfide-linked.
CC      -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC      -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC      -----
CC      This SWISS-PROT entry is copyrighted. It is produced through a collaboration
CC      between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC      the European Bioinformatics Institute. There are no restrictions on its
CC      use by non-profit institutions as long as content is in no way
CC      modified and this statement is not removed. Usage by and for commercial
CC      entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC      or send an email to license@isb-sib.ch).

```

DR	EMBL: U10091; AAA50219.1; .	
DR	PIR: I49050; I49050.	
DR	MGD: XGI:101903; Kira5.	
DR	InterPro: IPR001304; Lectin_C.	
DR	Pfam: PF00059; Lectin_c.1.	
DR	SMART: SM00034; CLECT.1.	
DR	PROSITE: PS00615; C TYPE LECTIN 1; FALSE_NEG.	
DR	PROSITE: PS00041; C TYPE LECTIN 2.1.	
KW	T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;	
KW	Signal-anchor; Lectin; Receptor; Multigene family;	
FT	DOMAIN 1 44	
FT	TRANSMEM 45 66	
FT		SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN) (POTENTIAL).
FT		EXTRACELLULAR (POTENTIAL).
FT	DOMAIN 143 261	
FT		C-TYPE LECTIN (LONG FORM).
FT	DISULFID 171 257	
FT		BY SIMILARITY.
FT	CARBOHYD 87 249	
FT		N-LINKED (GLCNAC . . .) (POTENTIAL).
FT	CARBOHYD 104 104	
FT		N-LINKED (GLCNAC . . .) (POTENTIAL).
FT	CARBOHYD 250 250	
FT		N-LINKED (GLCNAC . . .) (POTENTIAL).
SQ	SEQUENCE 266 AA; 30843 MW; BB50752218750490 CRC64;	

Best Local Similarity 20.7%; Pred. No. 1.5e-06;
Matches 50; Conservative 38; Mismatches 94; Indels 59; Gaps 9;

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QY      30  WEVAVALLILLICWVWVGLVALGIVSWVNNYVLDENENNRGTQOLA KRCQYVVKSE  89
      43  MQLVBSGLFICPPLLVTVAVLAVKIFQYGHQKHETHE---LNH--NHNCSNMQSDIK  96
QY      90  LKGTGKHKK---GSPCD-----TNMRYVGDSCYQ  115
      97  LKEEMLRNKSIGDSGPEHLESLNRQONRWVSETKTDLSQDTGTVGKHMFQYTKCFY  156
QY     116  FFRNLTWBSGKQVCTDMATLTKINDRNIVETIKARTHLR---VWLSLQGSNVEWKV  172
      157  FTMKNTWBSGKQKQCOHYSLPVLKIEDDELKFLQFQ--VTSYWSYGLSLDYKKKKQWAW  214
QY     173  EDGVSISENM---FEPLDGGKMNMCAYFINGXKHPTFCENKAYILMERARAKMTKVQOL  228
      215  IDNGPSKIDMEXTRKMNPKPG---GIFLSKRYLEDITGNNSYSYCLIGX---KLDHF  264
QY     229  P  229
Db     265  P  265

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RESULT 26	
FCE2_MOUSE	
ID_FCE2_MOUSE	STANDARD; PRT; 331 AA

DT 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Low affinity Immunoglobulin epsilon Fc receptor (Lymphocyte Ig3
DE receptor) (Fc-epsilon-RII) (CD23).
GN FCER2 OR FCER2A.
OS Mus musculus (Mouse).
CC Muscaria, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxId=10090.
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=90017519; PubMed=2529542;
RA Bettler B., Hofstetter H., Rao M., Yokoyama W.M., Kilcherr F.,
RA Conrad D.H.;
RT "Molecular structure and expression of the murine lymphocyte low-
RT affinity receptor for IgE (Fc epsilon RI).".
RL [2]
RL Proc. Natl. Acad. Sci. U.S.A. 86:7586-7570(1989).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=90171598; PubMed=2137845;
RA Gollnick S.O., Trounstine M.L., Yamashita J.C., Kehry M.R.,
RT Moore K.W.;
RT "Isolation, characterization, and expression of cDNA clones encoding
RT the mouse Fc receptor for IgE (Fc epsilon RI)I.".
RL J. Immunol. 144:1974-1982(1990).
RN [3]
RP SEQUENCE FROM N.A. (ISOFORMS B AND C).
RC STRAIN=DA3/2;
RX MEDLINE=94372613; PubMed=8086828;
RA Kondo H., Ichikawa Y., Nakamura K., Tsuchiya S.;
RT "Cloning of cDNAs for new subtypes of murine low-affinity Fc receptor
RT for IgE (Fc epsilon RI/CD23).".
RL Int. Arch. Allergy Immunol. 105:38-48(1994).
RN [4]
RP 3D-STRUCTURE MODELING OF LECTIN DOMAIN.
RX MEDLINE=94191542; PubMed=8142907;
RA Padian E.A., Helm B.A.;
RT "Modeling of the lectin-homology domains of the human and murine low
RT affinity Fc epsilon receptor (Fc epsilon RI/CD23).".
RL Receptor 3:325-341(1993).
CC - FUNCTION: THIS RECEPTOR HAS ESSENTIAL ROLES IN THE REGULATION OF
CC IGF PRODUCTION AND IN THE DIFFERENTIATION OF B-CELLS (IT IS A B-
CC CELL-SPECIFIC ANTIGEN).
CC - SUBCELLULAR LOCATION: type II membrane protein.


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CC -|- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=3;
CC Name=A;
CC IsoId=P20693-1; Sequence=Displayed;
CC Name=B;
CC IsoId=P20693-2; Sequence=VSP_003058;
CC Name=C;
CC IsoId=P20693-3; Sequence=VSP_003059;
CC -|- P1M: N- AND O-GLYCOSYLATED (BY SIMILARITY).
CC -|- MISCELLANEOUS: THERE ARE TWO KINDS OF FC RECEPTORS FOR IGE WHICH
CC DIFFER IN BOTH STRUCTURE AND FUNCTION: HIGH AFFINITY RECEPTORS ON
CC BASOPHILS AND MAST CELLS AND LOW AFFINITY RECEPTORS ON LYMPHOCYTES
CC AND MONOCYTES.
CC -|- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
DR EMBL; M99371; AAA74898.1; -
DR EMBL; M34163; AAA37603.1; -
DR EMBL; X64223; CAA45532.1; -
DR EMBL; X64224; CAA45533.1; -
DR PIR; A43518; INMSER.
DR PDB; 1HLJ; 31-JAN-94.
DR MGD; MGI:95497; Reetz2a.
DR InterPro; IPR002353; Antifreeze2ell.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C.1.
DR PRINTS; PR00356; ANTI-FREEZE2ELL.
DR SMART; SM00034; CLECT.1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
DR Igb-binding protein; Transmembrane; Glycoprotein; Receptor; B-cell;
KW Repeat; Lectin; Signal-anchor; Alternative splicing; 3D-structure.
KW DOMAIN
FT 1 23
FT TRANSMEM 24 49
FT 49
FT 50 331
FT DOMAIN 185 298
FT REPEAT 71 91
FT REPEAT 92 112
FT REPEAT 113 133
FT DISULFID 133 311
FT DISULFID 136 197
FT DISULFID 214 305
FT DISULFID 282 296
FT CARBOHYD 65 65
FT CARBOHYD 114 114
FT VARSPLIC 1 7
FT 7
FT VARSPLIC 1 7
FT 7
FT STRAND 197 200
FT HELIX 207 216
FT TURN 217 218
FT STRAND 220 221
FT STRAND 227 227
FT HELIX 237 237
FT TURN 238 239
FT STRAND 242 247
FT TURN 249 250
FT TURN 252 253
FT TURN 255 255
FT STRAND 256 259
FT TURN 268 268
FT STRAND 270 271
FT TURN 277 278
FT STRAND 282 285

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FT TURN 287 288
FT STRAND 291 294
FT TURN 296 297
FT STRAND 304 307
SQ SEQUENCE 331 AA; 37647 MW; B8C6D55F34ACDB2 CRC64;
Query Match 12.0%; Score 151; DB 1; Length 331;
Best local similarity 23.1%; Pred. No. 2.2e-06;
Matches 43; Conservative 39; Mismatches 66; Indels 38; Gaps 9;
QY NY:ODE-----NENRTGT-----LQQLAKRFQCVYKXSEIKGTYSKSPCDT 104
DB 137 NR:QDDLVNFKS:GLNKRRTASDLEKLOEYVAKLWITLIS-----KGIACNLCPK 168
QY 105 NW:YGDSCYGFRRHLDWESKQYCTDMNATLLKIDNRN-----IVEYIKARTHLIRWVG 160
DB 189 NW:HFQCKYCFYFGKSGKQWQARFACSDLGRLVSIHSQXEQDFLMQHIKXD---SWIG 245
QY 161 LSRQKSNEWYKMDGYSISNMFELDEGKNN--NCAYTH-NGKMHPTCEKHYL--- 214
DB 246 LODLNMEGRFVWSDGSPVGSYNNPGRPNNGGQGEQVWVRGSGQWMDAFC--RSYIDAW 303
QY 215 MCERKA 220
DB 304 VCEQLA 309
RESULT 27
NK14 MOUSE STANDARD; PRT; 220 AA.
ID NK14 MOUSE
AC P27814;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Natural killer cell surface protein p1-40 (NKR-P1 40) (NKR-P1.9).
GN KLEBIC OR LY55C OR LY55-C.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=91349595; PubMed=1880421;
RA Giorda R., Trucco M.;
RT "Mouse NKR-P1. A family of genes selectively coexpressed in adherent
RT lymphokine-activated killer cells.";
RL J. Immunol. 147:1701-1708(1991).
[2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RX MEDLINE=92373004; PubMed=1506685;
RA Ryan J.C., Turck J., Niemi E.C., Yokoyama W.M., Seaman W.E.;
RT "Molecular cloning of the NK1.1 antigen, a member of the NKS-P1
RT family of natural killer cell activation molecules.";
RL J. Immunol. 149:1631-1635(1992).
CC -|- FUNCTION: MAY FUNCTION AS SIGNAL-TRANSMITTING RECEPTOR.
CC -|- SUBCELLULAR LOCATION: Type II membrane protein.
CC -|- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -|- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
DR EMBL; M77578; AAA39824.1; -
DR PIR; C46467; C46467.
DR SWISS-2DPAGE; P27814; MOUSE.
DR MGD; MGI:107538; Klp1lc.
DR InterPro; IPR001304; Lectin_C.

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DR Pfam; PF00059; Lectin C; 1.
DR SMART; SMO034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE_LLECTIN_1; FALSE_NEG.
DR PROSITE; PS00615; C-TYPE_LLECTIN_2; 1.
KM Glycoprotein; Antigen; Transmembrane; Signal-anchor; Lectin.
FT DOMAIN 1 42
FT TRANSMEM 43 62
FT (POTENTIAL)
FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
FT FT
FT FT
FT DOMAIN 63 220
FT DOMAIN 90 212
FT DISULFID 91 102
FT DISULFID 119 207
FT DISULFID 186 199
FT CARBOHYD 83 83
FT CARBOHYD 166 166
FT CARBOHYD 183 183
FT SEQUENCE 220 AA; 24771 MW; 8A16081BD46398F CRC64;

Query Match 11.9%; Score 149.5; DB 1; Length 220;
Best Local Similarity 22.9%; Pred. No. 1.9e-06;
Matches 44; Conservative 43; Mismatches 78; Indels 27; Gaps 6;

QY 35 LILILICGVAVGVALGWSVQENYQDENENETGLQAFKFCQYVVKQSEKQTF 94
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 39 LALKSCAGLILVILILIGSVILVAVLVQKSPREK-----CCVFIQENLKKTV 87
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 95 KGHKSPDDTMMRYGDSGCGFFRNLTWESKQVCTDMATLTKIDN----RNVETIK 150
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 88 N----LECPQDMILHRDCPFHVSQVNTWEGQADCGKGAITLILIQEELRFLDSIK 143
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 151 ARTHLIRVWGLSPKSNEMWEDSGVISSENFEE---LEDDKGNMCAVPHNGKMPTE 207
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 144 EKVSF-WIGLRFTLPDMNMKMINGTTFNSDVKITGTENG---SCASILGDKVTSBS 198
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 208 CENKHYLCEK 219
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 199 CASDMRWICKE 210
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 28
LY4A_MOUSE STANDARD; PRT; 262 AA.
ID LY4A_MOUSE
AC P20937;
DT 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE T-cell surface glycoprotein Yel/48 (T lymphocyte antigen A1) (LY49-A antigen).
DE KLRAL OR LY49A OR LY-49A OR LY49 OR LY-49.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN 11
RP SEQUENCE FROM N.A.
RX MEDLINE=89140367; PubMed=2783949;
RA Chan P.-Y., Takei F.;
RT "Molecular cloning and characterization of a novel murine T cell surface antigen, Yel/48."
RT J. Immunol. 142:1727-1736(1989).
RN 12
RP SEQUENCE FROM N.A.
RX MEDLINE=89309828; PubMed=2787364;
RA Yokoyama W.M., Jacobs L., Kanagawa O., Shevach E.M., Cohen D.I.;
RT "A murine T lymphocyte antigen belongs to a supergene family of type II integral membrane proteins."
RT J. Immunol. 143:1379-1386(1989).
CC -1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR H-2D ALLELES. INHIBITS THE ACTIVITY OF NK CELLS THUS PREVENTING CELL LYSIS.
CC -1- SUBUNIT: Homodimer; disulfide-linked.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- TISSUE SPECIFICITY: HIGH, IN T LYMPHOMA LINES, VERY LOW IN

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CC NORMAL LYMPHOCYTES.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
DR EMBL; M25775; AAA40578.1; ALT_SEQ.
DR EMBL; M25812; AAA37242.1; -.
DR PIR; A30573; A30573.
DR PIR; A45813; A45813.
DR PDB; 1QO3; 02-JAN-00.
DR MGD; MGI:101907; Klrall.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin C; 1.
DR SMART; SMO034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE_LLECTIN_1; FALSE_NEG.
DR PROSITE; PS00615; C-TYPE_LLECTIN_2; 1.
KW T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;
KW Signal-anchor; Lectin; Receptor; Multigene family; 3D-structure.
FT DOMAIN 1 44
FT TRANSMEM 45 66
FT (POTENTIAL)
FT EXTRACELLULAR (PROBABLE).
FT DOMAIN 138 257
FT DISULFID 167 253
FT DISULFID 232 245
FT SITE 137 139
FT CARBOHYD 86 86
FT CARBOHYD 103 103
FT CARBOHYD 123 123
FT CONFLICT 76 78
FT CONFLICT 106 106
FT CONFLICT 166 166
FT CONFLICT 223 223
SQ SEQUENCE 262 AA; 30498 MW; 3C3328D265F7135E CRC64;

Query Match 11.9%; Score 149.5; DB 1; Length 262;
Best Local Similarity 21.5%; Pred. No. 2.3e-06;
Matches 52; Conservative 36; Mismatches 95; Indels 59; Gaps 9;

QY 27 SFWRVWALILILICGVAVGVALGWSVQENYQDENENETGLQAFKFCQYVVKQSEKQTF 86
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 40 SFHWKFTVIALGIFCPILVAVSVLAI-----KIFQYDQKNCSEFLNH--HNCSNMQS 92
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 67 QSEIKGFEGHKSCPC-----TWRRYGDSCYG 115
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 93 DINKDEMANKKSLIECOLLSLNDQRLNKYKTVLDSLOHTGRGDKVTFPGYKCY 152
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 116 FFRNLTWESKQVCTDMATLTKIDRNIVETIKARTHLI-----RWVGLSRQSNEMV 170
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 153 FVMRKRTWGGCKAQCGSSLSLTKIDDEDELKQFQ-----LVVPSDSCWVGLSYDNKKKDW 208
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 171 KWEHG--SVISENMFEE---LEDDKGNMCAVPHNGKMPTEPNKHYLMCEKAGMTKVDQ 227
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 209 AWINRPSKIALNTGKYNIRDG---GCMLSKTRLDNGNDQYFICIGK-----RLDK 259
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 228 LP 229
DB 260 FP 261

RESULT 29
LECH_MOUSE STANDARD; PRT; 283 AA.
ID LECH_MOUSE
AC P34927; O64363;
DT 01-FEB-1994 (Rel. 28, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 30-MAY-2000 (Rel. 39, Last annotation update)

```

DE Asialoglycoprotein receptor 1 (Hepatic lectin 1) (ML-1) (ASGP-R)
 DE (ASGP-R).
 GN ASGR1 OR ASGR-1.
 OS Mus musculus (Mouse).
 CC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Rodentia; Sclerognathi; Muridae; Murinae; Mus.
 CX NCBI_TaxId=10090.
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=93176818; PubMed=8439566;
 RA Takezawa R., Shinzawa K., Matanabe Y., Akaike T.;
 RT "Determination of mouse major asialoglycoprotein receptor cDNA
 RL sequence.";
 RL Biochim. Biophys. Acta 1172:220-222(1993).
 RP [2]
 RN SEQUENCE FROM N.A.
 RC STRAIN=BALB/c; TISSUE=Liver;
 RX MEDLINE=95047431; PubMed=7959950;
 RA Monroe R.S., Huber B.E.;
 RT "The major form of the murine asialoglycoprotein receptor: cDNA
 RL sequence and expression in liver, testis and epididymis.";
 RL Gene 148:237-244(1994).
 CC -!- FUNCTION: MEDIATES THE ENDOCYTOSIS OF PLASMA GLYCOPROTEINS TO
 CC WHICH THE TERMINAL SIALIC ACID RESIDUE ON THEIR COMPLEX
 CC CARBOHYDRATE MOIETIES HAS BEEN REMOVED. THE RECEPTOR RECOGNIZES
 CC TERMINAL GALACTOSE AND N-ACETYLGLUCOSAMINE UNITS. AFTER LIGAND
 CC BINDING TO THE RECEPTOR, THE RESULTING COMPLEX IS INTERNALIZED AND
 CC TRANSPORTED TO A SORTING ORGANELLE, WHERE RECEPTOR AND LIGAND ARE
 CC DISSOCIATED. THE RECEPTOR THEN RETURNS TO THE CELL MEMBRANE
 CC SURFACE.
 CC -!- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -!- TISSUE SPECIFICITY: EXPRESSED EXCLUSIVELY IN HEPATIC PARENCHYMAL
 CC CELLS.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -----
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 CC -----
 DR EMBL: D13517; BA02734.1; -
 DR EMBL: U09362; AAB0441.1; -
 DR EMBL: U08372; AAB60440.1; -
 DR HSSP: P20693; 1HLJ.
 DR MGD: MGI:88081; AsgR1.
 DR InterPro: IPR002353; AntiFreeze21.
 DR InterPro: IPR001304; Lectin C.
 DR InterPro: IPR005640; Lectin_N.
 DR Pfam: PF00059; lectin_c/1.
 DR Pfam: PF03954; lectin_N/1.
 DR PRINTS: PR00356; ANTI-FREEZE1.
 DR SMART: SM00034; CLECT.1.
 DR PROSITE: PS00615; C-TYPE_LLECTIN_1; 1.
 DR PROSITE: PS00611; C-TYPE_LLECTIN_2; 1.
 KW Lectin; Glycoprotein; Receptor; Endocytosis; Transmembrane;
 KW Calcium; Signal-anchor; Phosphorylation.
 FT INIT MET 0 0
 FT DOMAIN 1 38
 FT TRANSMEM 39 58
 FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
 FT (POTENTIAL).
 FT CYTOPLASMIC (POTENTIAL).
 FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
 FT (POTENTIAL).
 FT EXTRACELLULAR (POTENTIAL).
 FT C-TYPE LECTIN (LONG FORM).
 FT ENDOCYTOSIS SIGNAL (POTENTIAL).
 FT BY SIMILARITY.
 FT BY SIMILARITY.
 FT BY SIMILARITY.
 FT BY SIMILARITY.
 FT N-LINKED (GLCNAC. .) (POTENTIAL).
 FT N-LINKED (GLCNAC. .) (POTENTIAL).
 FT N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 74 74
 FT CARBOHYD 77 77
 FT CARBOHYD 145 145

FT CONFLICT 150 150 I -> T (IN REF. 1).
 SQ SEQUENCE 283 AA; 32472 MW; 982A5D305AAED08F CRC64;
 Query Match 11.8%; Score 149; DB 1; Length 283;
 Best Local Similarity 24.3%; Pred. No. 2,8e-06;
 Matches 44; Conservative 33; Mismatches 84; Indels 20; Gaps 6;
 QY 58 QRRVLDENNRKGTLOQLAKRFQYVVKSEIKGTFKHKRCPCDNNWRYGDSYCGFF 117
 Db 110 QQRDLTEHDSLLHVKQIVSDVRSLSQVAAFRGNSERIC--CPINWEYBGSCTWFS 167
 QY 118 RHNLTWESKQYCTDMNATLTKIDNRIVAYIKART-HLIRWGLSPQKSENEWKWEDGS 176
 Db 168 SSVPFWTEAKRYCOLENAHLIVVTSRDEQNFLORHMGEPMTWTIGLTQ--NGPWKWDGT 225
 QY 177 VISENWFEFLDEGX-----GNMNCAYF-HNGKMEPTFCENKHYLMCRKAGMTKVD 226
 Db 226 DYETGFQNWPEPEGCDNWYGEGLGGEDCAFTTDRWNDDVCRRPYRWGCE----TKLD 280
 QY 227 Q 227
 Db 281 K 281
 RESULT 30
 RHCA_AGRKH STANDARD; PRT; 133 AA.
 AC P81397;
 DT 15-JUL-1998 (Rel. 36, Created)
 DT 15-JUL-1998 (Rel. 36, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Rhodocetin alpha subunit.
 OS Agkistrodon rhodostoma (Malayan pit viper) (Calloselasma rhodostoma).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidea;
 CC Viperidae; Crotalinae; Calloselasma.
 CX NCBI_TaxId=8717;
 RN [1]
 RP SEQUENCE, FUNCTION, SUBUNIT, AND MASS SPECTROMETRY.
 RC Tissue-Venom.
 RX MEDLINE=99303998; PubMed=10360956;
 RA Wang R., Kim R.M., Chung M.C.Y.;
 RT "Rhodocetin, a novel platelet aggregation inhibitor from the venom of
 RT Calloselasma rhodostoma (Malayan pit viper): synergistic and
 RT noncovalent interaction between its subunits.";
 RL Biochemistry 38:7584-7593(1999).
 CC -!- FUNCTION: A potent inhibitor of collagen-induced platelet
 CC aggregation. Individually, neither subunit inhibits platelet
 CC aggregation. Both subunits are essential.
 CC -!- SUBUNIT: Heterodimer of one alpha and one beta subunit held
 CC together by noncovalent interactions rather than by intersubunit
 CC disulfide bridges.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- MASS SPECTROMETRY: MW=15955.90; MW ERR=1.44; METHOD=Electrospray.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 DR HSSP: P21806; 1LXX.
 DR InterPro: IPR001304; Lectin_C.
 DR Pfam: PF00059; lectin_c/1.
 DR SMART: SM00034; CLECT.1.
 DR PROSITE: PS00615; C-TYPE_LLECTIN_1; FALSE_NEG.
 DR PROSITE: PS00611; C-TYPE_LLECTIN_2; 1.
 KW Lectin.
 FT DOMAIN 1 129 C-TYPE LECTIN (LONG FORM).
 FT DISULFID 2 13 BY SIMILARITY.
 FT DISULFID 30 127 BY SIMILARITY.
 FT DISULFID 102 119 BY SIMILARITY.
 SQ SEQUENCE 133 AA; 15962 MW; 38EEAC519DFC74D CRC64;
 Query Match 11.8%; Score 148.5; DB 1; Length 133;
 Best Local Similarity 30.9%; Pred. No. 1,3e-06;
 Matches 42; Conservative 21; Mismatches 44; Indels 29; Gaps 8;
 QY 102 CDNNWRYGDSYCGFFRHNLTWESKQYCTDM--NATLLKIDNR-----NIVEYIKART 153

QY 192 NMNCAVPH-NGXMHPTFCENKHYIMCERKAGMT 223
 DB 275 SEDCEVEQPDGRWDDFCQLQYRWVCEKRENAT 307

RESULT 32

LECH RAT STANDARD; PRT; 283 AA.

AC P02706;
 DT 21-JUL-1996 (Rel. 01, Created)
 DT 13-AUG-1987 (Rel. 05, Last sequence update)
 DT 30-MAY-2000 (Rel. 39, Last annotation update)
 DE Asialoglycoprotein receptor 1 (Hepatic lectin 1) (RHL-1) (ASGP-R) (ASGP-R).
 GN ASGP1 OR ASGP-1.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OC NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=8608335; PubMed=2995379;
 RA Leung J.O., Holland E.C., Drickamer K.;
 RT "Characterization of the gene encoding the major rat liver asialoglycoprotein receptor."
 RL J. Biol. Chem. 260:12523-12527(1985).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=8608335; PubMed=2995379;
 RA Leung J.O., Holland E.C., Drickamer K.;
 RT "Characterization of the gene encoding the major rat liver asialoglycoprotein receptor."
 RL J. Biol. Chem. 260:12523-12527(1985).
 RN [3]
 RP SEQUENCE OF 11-283 FROM N.A.
 RX MEDLINE=87026895; PubMed=2945599;
 RA Watts C.;
 RT "Isolation and expression of cDNA clones for a rat liver asialoglycoprotein receptor."
 RL Biosci. Rep. 6:537-534(1986).
 CC -1- FUNCTION: MEDIATES THE ENDOCYTOSIS OF PLASMA GLYCOPROTEINS TO WHICH THE TERMINAL SIALIC ACID RESIDUE ON THEIR COMPLEX CARBOHYDRATE MOIETIES HAS BEEN REMOVED. THE RECEPTOR RECOGNIZES TERMINAL GALACTOSE AND N-ACETYLGLACTOSAMINE UNITS. AFTER LIGAND BINDING TO THE RECEPTOR, THE RESULTING COMPLEX IS INTERNALIZED AND TRANSPORTED TO A SORTING ORGANELLE, WHERE RECEPTOR AND LIGAND ARE DISASSOCIATED. THE RECEPTOR THEN RETURNS TO THE CELL MEMBRANE SURFACE.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -1- TISSUE SPECIFICITY: EXPRESSED EXCLUSIVELY IN HEPATIC PARENCHYMAL CELLS.
 CC -1- MISCELLANEOUS: CALCIUM IS REQUIRED FOR LIGAND BINDING.
 CC -1- IDENTIFIED, RHL-1 AND RHL-2/3, HAVING A RELATIVE ABUNDANCE OF 4:1.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
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 CC EMBL; K02817; AAA42037.1; -
 CC EMBL; M21770; AAA40764.1; -
 CC PIR; A92497; INRTL.
 CC HSSP; P20693; 1HLJ.
 CC InterPro; IPR002353; AntiFreeze1.
 CC InterPro; IPR01304; Lectin_C.
 CC InterPro; IPR005640; Lectin_N.
 CC Pfam; PF00059; lectin_cg; 1.

DR Pfam; PF03954; lectin_N; 1.
 DR PRINTS; PR00356; ANTIREEZB1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 KM Lectin; Glycoprotein; Receptor; Endocytosis; Transmembrane;
 KW Calcium; Signal-anchor; Phosphorylation.

FT INIT MET 0
 FT DOMAIN 1 38
 FT TRANSMEM 39 59
 FT DOMAIN 60 283
 FT DOMAIN 151 277
 FT SITE 4 7
 FT DISULFID 152 163
 FT DISULFID 180 275
 FT DISULFID 253 267
 FT CARBOHYD 74 74
 FT CARBOHYD 77 77
 FT CARBOHYD 145 145
 FT CONFLICT 60 60
 SQ SEQUENCE 283 AA; 32718 MW; 3BA2631A5E28A993 CRC64;

Query Match 11.5%; Score 145.5; DB 1; Length 283;
 Best Local Similarity 25.6%; Pred. No. 5,7e-06;
 Matches 44; Conservative 23; Mismatches 82; Indels 17; Gaps 6;

QY 62 LDENENRGTGLOAKRFQGVYKQSEIKGTGKHGKSPQDTNMRYYGDCYGFRRHNL 121
 DB 114 IREDSHRLILHVKQSLVDVSLSCQMAALFNGSERIC-CPTNWEYVEGSCYFSSSVK 171
 QY 122 TWESKQYCYDNVATLTKIDNRNIVETKART-HILRWGLSOKSWEKWDGYSISE 180
 DB 172 PWTBADRYQLENLHNVVTSWEQRFVQDHMGDLNTWISLTQ--NGPKWVDGTDY-E 228

QY 181 NMEFLEDEGK-----GNXNCAVE-HNGXMHPTFCENKHYIMCERKAG 221
 DB 229 TGFKWNPQGPDDWYGHGCGGDCAHFTTIDGHWNDVCCRPRRWVCEYELG 280

RESULT 33

KLR2 MOUSE STANDARD; PRT; 288 AA.

AC 060660;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE "Killer cell 1 lectin-like receptor 2 (T-cell surface glycoprotein DE LY-49B) (LY49-B antigen)."
 GN KLR2 OR LY49B OR LY49-B.
 OS Mus musculus (Mouse).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX STRAIN=C57BL/6 X CHA; TISSUE=Lung;
 RX MEDLINE=9132459; PubMed=1865832;
 RA Wong S., Freeman U.D., Kelleher C., Kager D., Takei F.;
 RT "Ly-49 multigene family. New members of a superfamily of type II membrane proteins with lectin-like domains."
 RL J. Immunol. 147:1417-1423(1991).
 CC -1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.
 CC -1- SUBUNIT: Homodimer; disulfide-linked.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
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CC		or sendan email to license@isp.ch).	
CC		-----	
DR	EMBL; U10304; AAA19052.1; .-		
DR	Pir; I49058; I49058.		
DR	MGD; MGI:101906; K1ra2.		
DR	InterPro; IPR001304; Lectin_C.		
DR	Pfam; PF000059; lectin c; 1.		
DR	SMART; SM00034; CLFCT_1.		
DR	PROSITE; PS00615; C_Type_Lectin_1; FALSE_NEG.		
DR	PROSITE; PS50041; C_Type_Lectin_2; 1.		
KM	T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;		
KW	Signal-anchor; Lectin; Receptor; Multigene family.		
FT	DOMAIN	1 45	CYTOPLASMIC (POTENTIAL).
FT	TRANSNM	46 66	SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN) (POTENTIAL).
FT	DOMAIN	67 288	EXTRACELLULAR (POTENTIAL).
FT	DISTALD	144 263	C-TYPE LECTIN (LONG FORM).
FT	DISTALD	173 259	BY SIMILARITY.
FT	CARBOHYD	238 251	BY SIMILARITY.
FT	CARBOHYD	94 94	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	105 105	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	114 114	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	177 177	N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ	SEQUENCE	288 AA; 33607 MW; B3A410A32DF5B82F CRC64;	
QY	Query Match	11.4%; Score 144; DB 1; Length 288;	
QY	Best Local Similarity	21.0%; Pred. No. 8e-06;	
Matches	49; Conservative	38; Mismatches	90; Indels
DB		56; Gaps	8
QY	30 KWMAALLILLIC-VGVTVGVALGLVSMQRYNIQDENENRTGTLOLAKFFCYIVKQ	87	
DB	. : : : : : : : : : : : : : : : :		
QY	43 WKFIYTVGIIICFTLLITVAVLVTHIFRDGCKEKEQEK----	TLNNLRDEY-CVMKXD	95
QY	88 SELKTFKHCKSPC-----	-DINNYYGYGS	112
DB	96 SLMEZMRPNKSSECKALNDSIHTANRBCRLRKTYVLDOSSQNKQKVBSYFCCGK	155	
QY	113 CYGFPHNLTWESROYCTDMNALTKIDNRNIVEIKATHL-IRVGLSHPKSNFEWK	171	
DB	156 CYGFIMDKRMWGCKQIQCDYVLTLLTKTNDEDELKFELMSQLGRNTYWLSTHKKX---	211	
QY	172 WEDGSVIENMFLEDDGKN----	NYCAATHNGKMPTPEBNGHYLMCEKK	219
DB	212 -EBSQIIDRBER-LDSAPNSVPNRCKAYLSSTREDDCARHGTCICEKR	262	
RESULT 34			
PAZR_RABIT	ID PAZR_RABIT	STANDARD;	PRT; 1458 AA.
AC	P49260;		
DT	01-FEB-1996 (Rel. 33, Created)		
DT	01-FEB-1996 (Rel. 33, Last sequence update)		
DT	15-JUL-1998 (Rel. 36, Last annotation update)		
DE	180 kDa secretory phospholipase A2 receptor precursor (PLA2-R).		
OX	Eukaryotes; Euteleostomi; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.		
OC	Mammalia; Euteleostomi; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.		
OX	NCBI_TaxID=9986;		
RN	(1)		
RP	SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.		
RP	TISSUE=Skeletal muscle;		
RC	MEDLINE=94124484; PubMed=8394398;		
RX	"Lambeau G., Ancian P., Barharin J., Lazdunski M.; Cloning and expression of a membrane receptor for secretory phospholipases A2.";		
RA	J. Biol. Chem. 269:1575-1578(1994).		
RT	FUNCTION: MAY HAVE A KEY ROLE IN NORMAL AND PATHOLOGICAL ACTIONS OF SECRETORY PHOSPHOLIPASE A2. ALSO BINDS TO SNAKE P2-LIKE TOXINS.		
CC	-SUBCELLULAR LOCATION: Type I membrane protein.		
CC	-TISSUE SPECIFICITY: Lung, skeletal muscle, brain, kidney and heart.		
CC	-SIMILARITY: Contains 8 C-type lectin family domains.		

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CC      -|- SIMILARITY: Contains 1 ricin B-type lectin domain.
CC      -----
CC      This SWISS-PROT entry is copyright. It is produced through a collaboration
CC      between the Swiss Institute of Bioinformatics and the EMBL Outstation
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CC      entities requires a license agreement (see http://www.isb-sib.ch/about/
CC      or send an email to license@isb-sib.ch).
CC      -----
DR      EMBL; U03455; AAC84802.1; -.
DR      PIR; A49707; A49707.
DR      HSPB; P02751; 2FM2.
DR      InterPro; IPR000562; FN_Type_II.
DR      InterPro; IPR001504; Lectin_C.
DR      InterPro; IPR00772; Ricin_B_lectin.
DR      Pfam; PF00040; Fn2; 1.
DR      Pfam; PF00059; lectin c; 8.
DR      Pfam; PF00652; Ricin_B_lectin; 1.
DR      ProDom; PD000995; FN_Type_II; 1.
DR      SMART; SMO0034; CLECT; 8.
DR      SMART; SMO0039; FN2; 1.
DR      SMART; SK00458; RICIN; 1.
DR      PROSITE; PS00615; C_TYPE_LECTIN_1; 3.
DR      PROSITE; PS00041; C_TYPE_LECTIN_2; 8.
DR      PROSITE; PS00023; FIBROECTIN_2; 1.
DR      PROSITE; PS00231; RICIN_B_Lectin; 1.
KW      Signal, Receptor, Transmembrane, Repeat, Glycoprotein, Lectin.
FT      SIGNAL          1   23    POTENTIAL.
FT      CHAIN           24   1458  EXTRACELLULAR PHOSPHOLIPASE A2 RECEPTOR.
FT      DOMAIN          24   1393  EXTRACELLULAR (POTENTIAL).
FT      TRANSMEM     1394   1416  POTENTIAL.
FT      DOMAIN        1417   1458  CYTOPLASMIC (POTENTIAL).
FT      DOMAIN        49   113    RICIN B-TYPE LECTIN.
FT      DOMAIN        165   220  FIBROECTIN TYPE-II.
FT      DOMAIN        227   356  C-TYPE LECTIN 1 (LONG FORM).
FT      DOMAIN        374   502  C-TYPE LECTIN 2 (LONG FORM).
FT      DOMAIN        511   645  C-TYPE LECTIN 3 (LONG FORM).
FT      DOMAIN        660   798  C-TYPE LECTIN 4 (LONG FORM).
FT      DOMAIN        815   939  C-TYPE LECTIN 5 (LONG FORM).
FT      DOMAIN        954   1098 C-TYPE LECTIN 6 (LONG FORM).
FT      DOMAIN       1117   1231 C-TYPE LECTIN 7 (LONG FORM).
FT      DOMAIN       1243   1376 C-TYPE LECTIN 8 (LONG FORM).
FT      CARBOHYD      91      91    N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD     408     408  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD     431     431  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD     452     452  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD     471     471  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD     582     582  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD     725     725  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD     778     778  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD     907     907  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD     981     981  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD    1054    1054  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD    1106    1106  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD    1121    1121  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD    1130    1130  N-LINKED (GLCNAC. . .) (POTENTIAL).
FT      CARBOHYD    1319    1319  N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ      SEQUENCE      1458 AA; 167199 MW; 686163066DBA9511 CRC64;

Query Match      11.4%; Score 143.5; DB 1; Length 1458;
Best Local Similarity 23.7%; Pred. No. 5;e-05;
Matches 42; Conservative 32; Mismatches 82; Indels 21; Gaps 6

55 SVMGQNYVQDENENETGTLQCLAKFCGYVVASQSRLKTFPKGHKMSPCDTWNRYYGDSCY 114
Db 333 SFMPRAW---RSRNESTLPYICKKLXLMHVDDEIYEKAWK-YVANDCHPGMAZYHRNRY 388
OY 115 GPFRNLTWESRKQYCTPMATLKIDNNIYEVY-----KRFTHIRNVGLSRQKS 166
Db 389 KLOEKEKTWNALHSCLSNSTLDIGLAIEVEFYVLIGNENASSET---WTGLSNTF 444
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QY 167 NEWKMEDESVISENMFLEED---GKNNMCAYFHNGKME--PTFCENKHYLMCEER 218
DB 445 EVSREWNGSSVFTFTWHTLPPQIFPRSQLCVSABSGHWKTDCIEHFHYCKK 501

RESULT 35
KLR7 MOUSE STANDARD; PRT: 280 AA.
ID KLR7 MOUSE
AC Q60654; Q60655; Q60656; Q60683;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Killer cell lectin-like receptor 7 (T-cell surface glycoprotein
DE LY-49G) (LY49-G antigen).
GN KLR7 OR LY49G OR LY-49G OR LY49-G OR LY49G4.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;

[1]
SEQUENCE FROM N.A.
STRAIN=C57BL/6; TISSUE=Sp.teen;
MEDLINE=94300068; PubMed=8027540;
RA Smith H.R.C., Karlhofer F.M., Yokoyama W.M.;
RT "Ly-49 multigene family expressed by IL-2-activated NK cells.";
RL J. Immunol. 153:1068-1079(1994).

[2]
SEQUENCE FROM N.A. (ISOFORM LY-49G.2).
STRAIN=B10.A;
MEDLINE=95053763; PubMed=7964501;
RA Brennan J., Mager D., Jefferies W., Takei F.;
RT "Expression of different members of the Ly-49 gene family defines
RT distinct natural killer cell subsets and cell adhesion properties.";
RL J. Exp. Med. 180:2287-2295(1994).

-1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.
-1- SUBUNIT: Homodimer; disulfide-linked.
-1- SUBCELLULAR LOCATION: Type II membrane protein.
-1- ALTERNATIVE PRODUCTS:
Event=Alternative splicing; Named isoforms=3;
Name=Ly-49G.1;
IsoId=Q60654-1; Sequence=Displayed;
Name=Ly-49G.2;
IsoId=Q60654-2; Sequence=VSP_003070;
Name=Ly-49G.3;
IsoId=Q60654-3; Sequence=VSP_003069;
-1- SIMILARITY: Contains 1 C-type lectin family domain.

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EMBL; U10093; AAS0221.1; -
EMBL; U10094; AAS0222.1; -
EMBL; U10095; AAS0223.1; -
EMBL; U12890; AAS8705.1; -
PIR; I49052; I49052.
PIR; I49053; I49053.
PIR; I49054; I49054.
MGD; MGI:101901; Klr7.
InterPro: IPR001304; Lectin_C.
Pfam; PF00059; Lectin_c_1.
SMART; SM00034; CLECT_1.
PROSITE; PS00615; C_TYPE_LLECTIN_1; FAIS3_NEG.
PROSITE; PS00641; C_TYPE_LLECTIN_2; 1.
T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;
KW Signal-anchor; Lectin; Receptor; Multigene family;
KW Alternative splicing;
FT DOMAIN 1 44 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 45 66 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)

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FT DOMAIN 67 280 (POTENTIAL).
FT DOMAIN 156 275 EXTRACELLULAR (POTENTIAL).
FT DISULFID 185 271 C-TYPE LECTIN (LONG FORM).
FT DISULFID 250 263 BY SIMILARITY.
FT CARBOHYD 87 267 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 104 104 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 239 239 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPPLIC 117 193 Missing (in isoform Ly-49G.3).
FT VARSPPLIC 142 154 /Prid=VSP_003069.
FT VARSPPLIC 142 154 Missing (in isoform Ly-49G.2).
FT CONFLICT 44 44 /Prid=VSP_003070.
FT CONFLICT 44 44 K -> Q (IN REF. 2).
SQ SEQUENCE 280 AA; 32522 MW; 4704A2D87D5E83FB CRC64;

Query Match 11.2%; Score 141.5; DB 1; Length 280;
Best Local Similarity 21.1%; Pred. No. 1.3e-05;
Matches 53; Conservativity 45; Mismatches 88; Indels 65; Gaps 10;

QY 30 WRVVALILILIC--VGVVGLVALGIVSVQRYV-----LQDE-- 65
DB 43 WKLIIVNGGILCFLLVTVALLITTFQHQQXHELOFTLNCNDGSPQSYNKLDEL 102
QY 66 -----NENR---TGLQQLAKPCQYVVKQSHLKGTFPGHKCSPC 102
DB 103 RNKSIKCPGNDLLESISRQKRWYSATKTFSDSQHTGVHERPISXAEKGGRGF----- 157
QY 103 DTMRRYVDSGCGFFRNILWSESKQCYTMNATLKTIDNRNVEYIK-ARTHLIRVWGL 161
DB 158 EKTPVPCGICFYFNMDRKTSWGGCKQTQISSLSLKLINDEDELKFLQNALPSPDISWGL 217
QY 162 SROKSNVWMEDEG--SVISENMFEE-IEDGKNNMCAYFHNGKME--PTFCENKHYLMCEER 218
DB 218 SYNNKKKDWYINDGPEKSLNNTKYNIIRGL-----CWSLSKIRLDNGDCDKSYICICGK 273
QY 219 KAGTKYVDLP 229
DB 274 -----RDKRP 279

RESULT 36
KNG2 PANTR STANDARD; PRT: 240 AA.
ID KNG2 PANTR
AC Q95M14; Q95M13;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE KNG2-B type II integral membrane protein (KNG2-B activating NK
DE receptor) (NK cell receptor B).
GN KLR3 OR NKG2E.
OS Pan troglodytes (Chimpanzee).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pan.
OX NCBI_TaxID=9598;

[1]
SEQUENCE FROM N.A., AND VARIANT ARG-213.
MEDLINE=21623889; PubMed=11751968;
RA Shum B.P., Flodin L.R., Muir D.G., Rajalingam R., Krakoo S.I.,
RA Cleland S., Guehllein L.A., Uhrberg M., Parham P.;
RT "Conservation and variation in human and common chimpanzee CD94 and
RT NKG2 genes.";
RL J. Immunol. 168:240-252(2002).
CC CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.
CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.

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CC EMBL; AF350006; AAK83793.1; -
 CC EMBL; AF350007; AAK83794.1; -
 CC InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SMO0034; CLECT; 1.
 DR PROSITE; PS00615; C-TYPE LECTIN_1; FALSE_NEG.
 DR PROSITE; PS50041; C-TYPE LECTIN_2; 1.
 KW Receptor; Transmembrane; Multigene family; Signal-anchor; Lectin;
 KW Glycoprotein; Polymorphism.
 FT DOMAIN 1 70
 FT TRANSMEM 71 93
 FT PROSITE 94 240
 FT DOMAIN 116 230
 FT DISULFID 117 128
 FT DISULFID 207 220
 FT VARIANT 213 213
 SQ SEQUENCE 240 AA; 26996 MW; BC28FB3CEA93A5E0 CRC64;

Query Match 11.1%; Score 140.5; DB 1; Length 240;
 Best Local Similarity 22.9%; Pred. No. 1.3e-05;
 Matches 39; Conservative 28; Mismatches 74; Indels 29; Gaps 5;

QY 31 RYMAILLILCYGMVGVVAGLGVNVMQRYNIQDENENRTGLQGLAKRFQYVYKQSEL 90
 DB 70 KLTAAWLGITCTVLSAVLK---TIVLIPLEQNSSSENFETQ----- 109
 QY 91 KQTFGKHKSPCDTWYRYGSDCYGPFRLNFWESKQYCTDM-ATLLKIDNRIVAYI 149
 DB 110 ----KAPRGCHPEEMITYSNCTYIGKERRTWESLQACASNSSLLSIDNEEMKFL 165
 QY 150 KARTHLIRWGLSRQKSNWEMWEDGSVSENMFELDEGKNNCAVYH 199
 DB 166 -ASLIPSSWIGVFCNSSHHPWTINGLAFK---ELKSDHIAERNCAMH 211

RESULT 37
 LECH HUMAN STANDARD; PRT; 290 AA.
 AC P07306;
 DT 01-APR-1988 (Rel. 07, Created)
 DT 01-APR-1988 (Rel. 07, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Asialoglycoprotein receptor 1 (Hepatic lectin II) (ASGPR) (ASGP-R).
 GN ASGRI.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OC NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=85130911; PubMed=2982798;
 RA Spiess M., Schwartz A.L., Lodish H.F.;
 RT "Sequence of human asialoglycoprotein receptor cDNA. An internal
 RT signal sequence for membrane insertion."
 RL J. Biol. Chem. 260:1979-1982(1985).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=86079574; PubMed=3753585;
 RA Spiess M., Lodish H.F.;
 RT "An internal signal sequence: the asialoglycoprotein receptor memb-
 RT anchor."
 RL Cell 44:177-185(1986).
 RN [3]
 RP SEQUENCE FROM N.A.
 RA Wang H., Gao X., Li L., Lou H., Huang Y., Wang B., Han J.;
 RT "Human asialoglycoprotein receptor 1 gene is expressed in SH-SY5Y
 RT human neuroblastoma cells."
 RL Submitted (SSP-2001) to the EMBL/GenBank/DBJ databases.

CC - FUNCTION: MEDIATES THE ENDOCYTOSIS OF PLASMA GLYCOPROTEINS TO
 CC WHICH THE TERMINAL SIALIC ACID RESIDUE ON THEIR COMPLEX
 CC CARBOHYDRATE MOIETIES HAS BEEN REMOVED. THE RECEPTOR RECOGNIZES
 CC TERMINAL GALACTOSE AND N-ACETYLGALACTOSAMINE UNITS. AFTER LIGAND
 CC BINDING TO THE RECEPTOR, THE RESULTING COMPLEX IS INTERNALIZED AND
 CC TRANSPORTED TO A SORTING ORGANELLE, WHERE RECEPTOR AND LIGAND ARE
 CC DISASSOCIATED. THE RECEPTOR THEN RETURNS TO THE CELL MEMBRANE
 CC SURFACE.
 CC - SUBCELLULAR LOCATION: Type II membrane protein.
 CC - TISSUE SPECIFICITY: EXPRESSED EXCLUSIVELY IN HEPATIC PARENCHYMAL
 CC CELLS.
 CC - PTM: PHOSPHORYLATED ON A CYTOPLASMIC SER RESIDUE.
 CC - MISCELLANEOUS: CALCIUM IS REQUIRED FOR LIGAND BINDING.
 CC - SIMILARITY: Contains 1 C-type lectin family domain.
 CC
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DR EMBL; M10058; AAS1785.1; -
 DR EMBL; A3070933; BAB83508.1; -
 DR PIR; A22509; LNHU1
 DR PDB; 1DV8; 25-JUL-00
 DR Genew; HGNC:742; ASGRI.
 DR MIM; 108360; -
 DR GO; GO:0005687; C:integral to plasma membrane; TAS.
 DR GO; GO:0004873; F:asialoglycoprotein receptor activity; TAS.
 DR GO; GO:0006898; P:receptor mediated endocytosis; TAS.
 DR InterPro; IPR002153; Antifreezeit.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR005640; Lectin_N.
 DR Pfam; PF00059; lectin_c; 1.
 DR Pfam; PF03954; lectin_N; 1.
 DR PRINTS; PR00356; ANTIFREEZE2II.
 DR SMART; SMO0034; CLECT; 1.
 DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
 DR PROSITE; PS50041; C-TYPE LECTIN_2; 1.
 KW lectin; glycoprotein; Receptor; Endocytosis; Transmembrane; Calcium;
 KW Signal-anchor; Phosphorylation; 3D-structure.
 FT INIT MET 0
 FT DOMAIN 1 39
 FT TRANSMEM 40 60
 FT PROSITE 61 290
 FT DOMAIN 152 278
 FT SITE 4 7
 FT DISULFID 153 164
 FT DISULFID 181 276
 FT DISULFID 254 268
 FT CARBOHYD 80 80
 FT CARBOHYD 148 148
 SQ SEQUENCE 290 AA; 33055 MW; B1897CEB3DDAE1566 CRC64;

Query Match 11.0%; Score 138.5; DB 1; Length 290;
 Best Local Similarity 22.3%; Pred. No. 2.5e-05;
 Matches 60; Conservative 44; Mismatches 84; Indels 81; Gaps 15;

QY 19 LVSVGPASSFWMRVATLILLCY-----GMYVGVVAL 51
 DB 42 LLSJG-----LSLLLVVVCYGSNSQLQELRLGRLRETFNSTAQAQVGLSTQ 53
 QY 52 G-----LWSVQRYNIQDENENRTGLQGLAKRF-----QYVYKQSELKGT 94
 DB 94 GGNVGRKMKSLPESQLEKQ-KDLSHDHSSLLHV-KQFVSDRLSQC---MAALQNG 147
 QY 95 KGHKSPDQTYWRYGSDCYGPFRLNFWESKQYCTDMATLLKIDNRIVAYIKARH 154
 DB 148 SEPTC-CPVAVWEHERSCYVFSRSGKAWADADNYCRLEDHLLVVVTSWEQKFWO--H 202

QY 155 LI-----RWGLSRQKSNVWKWEDSGVIS-----ENMFEEJEDG-KGNMCAVE-FH 200
 DB 203 HIGEVNTWGLHDQ--NGPKWVDGTDYETGFKWREBEPDWMIGHGLGGEGDCAHPTD 250
 QY 201 GKMEPTFCENKYLMECKKAGMTKVDLP 229
 DB 261 GRMNDVYQRPFRWCETE--LDKASQEP 287

RESULT 38

KUCR MOUSE

ID KUCR MOUSE STANDARD; PRT; 548 AA.

AC P70194;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE C-type lectin 13 (Xupffer cell receptor).
 GN CLEC5F13 OR KCLR.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BALB/c; TISSUE=Liver;
 RA Takezawa R., Nagatsuma H., Nomoto C., Matanabe Y., Akaike T.;
 RL Submitted (NOV-1996) to the EMBL/GenBank/DBJ databases.
 CC -1- FUNCTION: RECEPTOR WITH AN AFFINITY FOR GALACTOSE AND FUCOSE.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -1- TISSUE SPECIFICITY: XUPFFER CELLS.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.

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CC -----
 DR EMBL: D88577; BAA13647.1; -
 DR HSSP: P20693; 1HLJ.
 DR MGI: MGI:1859834; Clec5f13.
 DR InterPro: IPR002353; Antifreeze2.1.
 DR InterPro: IPR001304; Lectin_C.
 DR Pfam: PF00059; Lectin_C_1.
 DR PRINTS: PR00356; ANTIFFREZE2.1.
 DR SMART: SM00034; CLECT_1.
 DR PROSITE: PS00615; C_TYPE_LECTIN_1; 1.
 DR PROSITE: PS00041; C_TYPE_LECTIN_2; 1.
 KM Receptor; Transmembrane; Glycoprotein; Lectin; Signal-anchor;
 KM Endocytosis.
 FT DOMAIN 1 42
 FT TRANSMEM 43 69
 FT SIGNAL-ANCHOR (TYPE-II YE-MEMBRANE PROTEIN)
 FT (POTENTIAL).
 FT DOMAIN 70 548
 FT EXTRACELLULAR (POTENTIAL).
 FT DISULFID 440 538
 FT C-TYPE LECTIN (SHORT FORM).
 FT BY SIMILARITY.
 FT BY SIMILARITY.
 FT CARBOHYD 86 86
 FT N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 92 92
 FT N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 115 115
 FT N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 132 132
 FT N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 209 209
 FT N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 255 255
 FT N-LINKED (GLCNAC...) (POTENTIAL).
 SQ SEQUENCE 348 AA; 61268 MW; 6F6495B820E73BD9 CRC64;

Query Match 10.9%; Score 138; DB 1; Length 548;
 Best Local Similarity 26.9%; Pred. No. 5.7e-05;
 Matches 32; Conservative 25; Mismatches 46; Indels 16; Gaps 5;

QY 62 LODENENTRTGLQQLAKRFQYVVKOSLKGFTFKHGKSPCDNNRYGDSGCGPFRNL 121

DB 381 IGG--GNRIGALQEA-----VAAQKQDQK--QNVVLQINQMKYFNNGNYFERDCK 431
 QY 122 TWESKQYCTDMNATLTKIDNRN---IYEYIKARTELRWGLSRQKSNVWKWEDGS 176
 DB 432 EWRBAEFTCTSOAHILASVTSQEDAFIVOTSSGDH---WIGLFDQTEGIRRWVDGT 487

RESULT 39

CD69_HUMAN

ID CD69_HUMAN STANDARD; PRT; 199 AA.

AC 007108;
 DT 01-OCT-1994 (Rel. 30, Created)
 DT 01-OCT-1994 (Rel. 30, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Early activation antigen CD69 (Early T-cell activation antigen p60)
 DE (GP32/28) (Leu-23) (MIR-3) (EAI) (BL-AC/P26) (Activation inducer
 DE molecule) (AIM).
 GN CD69.
 OS Homo sapiens (human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Blood;
 RA MEDLINE=93257093; PubMed=8496594;
 RX Hamann J., Flebzig H., Straus M.;
 RA "Expression cloning of the early activation antigen CD69, a type II
 RA integral membrane protein with a C-type lectin domain";
 RL J. Immunol. 150:4920-4927(1993).
 RN [2]

RP SEQUENCE FROM N.A., AND SEQUENCE OF 96-103; 128-146 AND 189-199.
 RC TISSUE=Blood;
 RX MEDLINE=93340630; PubMed=8340758;
 RA Lopez-Cabrera M., Santis A.G., Fernandez-Tuiz E., Blacher R.,
 RA Besh P., Sanchez-Mateos P., Sanchez-Madrid F.;
 RT "Molecular cloning, expression, and chromosomal localization of the
 RT human earliest lymphocyte activation antigen AIM/CD69, a new member
 RT of the C-type animal lectin superfamily of signal-transmitting
 RT receptors";
 RL J. Exp. Med. 178:537-547(1993).
 RN [3]

RP SEQUENCE FROM N.A.
 RX MEDLINE=93314711; PubMed=8100776;
 RA Ziegler S.F., Ramsdell F., Hjerrild K.A., Arnltage R.J.,
 RA Grubstein K.H., Hernen K.B., Parrish T., Fauslow W.C., Shevach E.M.,
 RA Alderson M.R.;
 RT "Molecular characterization of the early activation antigen CD69: a
 RT type II membrane glycoprotein related to a family of natural killer
 RT cell activation antigens";
 RL Eur. J. Immunol. 23:1643-1648(1993).
 RN [4]

RP SEQUENCE FROM N.A.
 RP TISSUE=Placenta;
 RX MEDLINE=94298875; PubMed=8026529;
 RA Santis A., Lopez-Cabrera M., Hamann J., Straus M., Sanchez-Madrid F.;
 RT "Structure of the gene coding for the human early lymphocyte
 RT activation antigen CD69: a C-type lectin receptor evolutionarily
 RT related with the gene families of natural killer cell-specific
 RT receptors";
 RL Eur. J. Immunol. 24:1692-1697(1994).
 RN [5]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Pancreas;
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Feingold B.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buelow K.H., Schaefer C.F., Bat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Ditschenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Uscin T.B., Toshitoki S., Carninci P., Prange C.,

RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
 RA Bosak S.A., McGowan P.J., McKernan K.J., Malek J.A., Gamarane P.H.,
 RA Richards S., Wolzy K.C., Hale S., Garcia A.M., Gay L.C., Hulyk S.W.,
 RA Villalon D.K., Muzny D.M., Sodergren E.U., Lu X., Gibbs R.A.,
 RA Fahy J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzyzinski M.I., Skalska U., Smalhus D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
 RT "Generation and initial analysis of more than 15,000 full-length
 RT human and mouse cDNA sequences.";
 RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 CC -1- FUNCTION: INVOLVED IN LYMPHOCYTE PROLIFERATION AND FUNCTIONS AS A
 CC SIGNAL TRANSMITTING RECEPTOR IN LYMPHOCYTES, NATURAL KILLER (NK)
 CC CELLS, AND PLATELETS.
 CC -1- SUBUNIT: Homodimer; disulfide-linked.
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
 CC -1- TISSUE SPECIFICITY: EXPRESSED ON THE SURFACE OF ACTIVATED T CELLS,
 CC B-CELLS, NATURAL KILLER CELLS, NEUTROPHILS, EOSINOPHILS, EPIDERMAL
 CC LANGERHANS CELLS AND PLATELETS.
 CC -1- DEVELOPMENTAL STAGE: EARLIEST INDUCIBLE CELL SURFACE GLYCOPROTEIN
 CC ACQUIRED DURING LYMPHOID ACTIVATION.
 CC -1- INDUCTION: BY ANTIGENS, MITOGENS OR ACTIVATORS OF PKC ON THE
 CC SURFACE OF T AND B LYMPHOCYTES. BY INTERACTION OF IL-2 WITH THE
 CC P75 IL-2R ON THE SURFACE OF NK CELLS.
 CC -1- PFM: CONSTITUTIVE SER/THR PHOSPHORYLATION IN BOTH MATURE
 CC THYMOCYTES AND ACTIVATED T LYMPHOCYTES.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -1- DATABASE: NAME=PRO; NCBI=CD guide CD69 entry.
 CC WWW="http://www.ncbi.nlm.nih.gov/prov/ed/cd69.htm".
 CC -----
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 CC -----
 DR EMBL, L07555, ABA6359.1, -;
 DR EMBL, Z22576, CAA80298.1, -;
 DR EMBL, Z30426, CAA83017.1, -;
 DR EMBL, Z30430, CAA83017.1, JOINED.
 DR EMBL, Z30427, CAA83017.1, JOINED.
 DR EMBL, Z30429, CAA83017.1, JOINED.
 DR EMBL, Z30428, CAA83017.1, JOINED.
 DR EMBL, BC007037, AA07037.1, -;
 DR PIR, JH0822, JH0822.
 DR PD9, IE87, 24-OCT-00.
 DR PDB, IE81, 26-SEP-00.
 DR Genew, HGNC:1694, CD69.
 DR MIM, 107273, -;
 DR GO, GO:0005887, C: integral to plasma membrane; TAS.
 DR GO, GO:0004888, F: transmembrane receptor activity; TAS.
 DR InterPro, IPR001304, Lectin_C.
 DR Pfam, PFO0059, lectin c; 1.
 DR SMART, SM00034, CLECT_1.
 DR PROSITE, PS00615, C-TYPE_LLECTIN_1; FALSE_NEG.
 DR PROSITE, PS00041, C-TYPE_LLECTIN_2; 1.
 KW Antigen; B-cell; Glycoprotein; Transmembrane; Lectin; Signal-anchor;
 KW Phosphorylation; 3D-structure.
 FT DOMAIN 1 40
 FT TRANSMEM 41 61
 FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
 FT (POTENTIAL).
 FT DOMAIN 62 199
 FT TRANSMEM 63 199
 FT EXTRACELLULAR (POTENTIAL).
 FT DOMAIN 67 199
 FT TRANSMEM 68 199
 FT EXTRACELLULAR (POTENTIAL).
 FT DISULFID 96 194
 FT DISULFID 97 194
 FT DISULFID 173 186
 FT DISULFID 173 186
 FT CARBOHYD 166 166
 FT CARBOHYD 166 166
 FT SEQUENCE 199 AA, 22559 KW, 172E9269D2FB8DB CRC64;

Query Match 10.9%; Score 137.5; DB 1; Length 199;
 Best Local Similarity 26.0%; Pred. No. 2e-05;
 Matches 32; Conservative 21; Mismatches 57; Indels 13; Gaps 5;
 QY 100 SPCDTWRVYDSCYGFHFNLTWESKQCTDMATLTKIDRNIVEYK---ARTHL 155
 DB 83 SSSSESMVGVGRRCYITRYKRWTSQAQNASGHATLAVIDSKMNFILRYAGREH- 141
 QY 156 IRWVGLSRQKSNVWKEWEDGVSISENMFEELEGGKNNCAVPHNGMPTFCENRHYM 215
 DB 142 --VWGLKKEGHP-WWMSNGKEPN-NWPNV---TSDKCVFLKTEFVSMECEKNLYWI 193
 QY 216 CER 218
 DB 194 CNK 196
 RESULT 40
 PCGV BOVIN STANDARD; PART, 3381 AA.
 AC P81282, 077609, 077610, 077611, 077612;
 DT 15-DEC-1998 (Rel. 37, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Versican core protein precursor (Large fibroblast proteoglycan)
 DE (chondroitin sulfate proteoglycan core protein 2) (PG-M) (Glial
 DE hyaluronate-binding protein) (GHA).
 GN CP5G2.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Bovine; Bos.
 OX NCBI_TaxID=9913;
 RN [1]
 RP SEQUENCE FROM N.A. (ISOFORMS V0, V1, V2 AND V3).
 RC TISSUE=Forebrain;
 RX MEDLINE=9288320; Pubmed=9624174;
 RA Schmalfeldt V., Dours-Zimmermann M.T., Winterhalter K.H.,
 RA Zimmermann D.R.,
 RT "Versican v2 is a major extracellular matrix component of the mature
 RT bovine brain.";
 RT J. Biol. Chem. 273:15758-15764(1998).
 RN [2]
 RP SEQUENCE OF 21-53; 78-96; 226-250; 262-277; 295-306; 314-324; 329-331
 RP AND 342-348.
 RC TISSUE=Spinal cord;
 RX MEDLINE=92062692; Pubmed=1720020;
 RA Perides G., Biviano F., Sigmami A.,
 RT "Interaction of a brain extracellular matrix protein with hyaluronic
 RT acid.";
 RT Biochim. Biophys. Acta 1075:248-258(1991).
 CC -1- FUNCTION: May play a role in intercellular signaling and in
 CC connecting cells with the extracellular matrix. May take part in
 CC the regulation of cell motility, growth and differentiation. Binds
 CC hyaluronic acid.
 CC -1- SUBUNIT: Interacts with FBLN1 (by similarity).
 CC -1- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
 CC -1- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=4;
 CC Comment=Additional isoforms seem to exist;
 CC Name=V0;
 CC IsoId=P81282-1; Sequence=Displayed;
 CC Name=V1;
 CC IsoId=P81282-2; Sequence=VSP_003078, VSP_003079;
 CC Name=V2;
 CC IsoId=P81282-3; Sequence=VSP_003080;
 CC Name=V3;
 CC IsoId=P81282-4; Sequence=VSP_003078, VSP_003081;
 CC -1- TISSUE SPECIFICITY: Cerebral white matter. V0 and V1 are expressed
 CC in the central nervous system, and in a number of mesenchymal and
 CC epithelial tissues, the major isoform v2 is restricted to the
 CC central nervous system.
 CC -1- DEVELOPMENTAL STAGE: Disappears after the cartilage development


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DT 16-OCT-2001 (Rel. 40, Last sequence update)
DE 15-SEP-2003 (Rel. 42, Last annotation update)
DE Versican core protein precursor (Large fibroblast proteoglycan)
DE (Chondroitin sulfate proteoglycan core protein 2) (Pg-M) (Glial
DE hyaluronate-binding protein) (GHAAP) (Fragments).
GN CPGS2.
OS Rattus norvegicus (Rat).
OC Eumariota; Metazoa; Chordata; Craniota; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
CX NCBI_taxid=10116;
RN [1]
RP SEQUENCE OF 349-2738 FROM N.A. (ISOFORM V0), SEQUENCE FROM N.A.
RP (ISOFORM V3), AND SEQUENCE OF 2657-2738 FROM N.A. (ISOFORM V1NT).
RC STRAIN=Wistar Kyoto.
RX MEDLINE=99327053; PubMed=10397689;
RX Lemire J.M., Bruun K.R., Maurel P., Kaplan E.D., Schwartz S.M.,
RA Maurel T.N.;
RA "Versican/Pg-M isoforms in vascular smooth muscle cells.";
RT Arterioscler. Thromb. Biol. 19:1630-1639(1999).
RN [2]
RP SEQUENCE OF 349-2738 FROM N.A. (ISOFORM V0).
RC STRAIN=Wistar Kyoto.
RX MEDLINE=98308094; PubMed=9642104;
RA Mitev P., Maurel P., Ghiba A., Mewissen M., Popp S., Yamaguchi Y.,
RA Margolis R.K., Margolis R.U.;
RT "Differential regulation of expression of hyaluronan-binding
RT proteoglycans in developing brain: aggrecan, versican, neurocan, and
RT brevican.";
RN Biochem. Biophys. Res. Commun. 247:207-212(1998).
RP [3]
RP SEQUENCE OF 2421-2463 FROM N.A. (ISOFORM V0).
RC TISSUE=Kidney;
RX MEDLINE=98094159; PubMed=9434070;
RX Pyke C., Kristensen P., Ostergaard P.B., Ocular P.S., Romer J.;
RT "Proteoglycan expression in the normal rat kidney.";
RL Nephron 77:461-470(1997).
RN [4]
RP SEQUENCE OF 2535-2738 FROM N.A.
RC STRAIN=Sprague-Dawley; TISSUE=Lung;
RA Blomberg L.A., Chan M.-Y., Clerch L., Massaro D.;
RT "Molecular cloning and characterization of two developmentally
RT regulated genes in rat lung.";
RL Submitted (SEP-2000) to the EMBL/Genbank/DBJ databases.
CC -1- FUNCTION: May play a role in intercellular signaling and in
CC connecting cells with the extracellular matrix. May take part in
CC the regulation of cell motility, growth and differentiation. Binds
CC hyaluronic acid.
CC -1- SUBUNIT: Interacts with PBLN1 (By similarity).
CC -1- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC -1- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=3;
CC Comment=Additional isoforms seem to exist;
CC Name=V0;
CC IsoId=Q9ERP4-1; Sequence=Displayed;
CC Name=V3;
CC IsoId=Q9ERP4-2; Sequence=VSP_003091;
CC Name=V1nt;
CC IsoId=Q9ERP4-3; Sequence=VSP_003092;
CC -1- TISSUE SPECIFICITY: In kidney is expressed in the papillary area,
CC but not in glomeruli.
CC -1- DEVELOPMENTAL STAGE: Disappears after the cartilage development
CC (By similarity).
CC -1- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -1- SIMILARITY: Contains 2 link domains.
CC -1- SIMILARITY: Contains 2 EGF-like domains.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -1- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -1- SIMILARITY: BELONGS TO THE AGGRECAN/VERSICAN PROTEOGLYCAN FAMILY.
CC -----
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[illegible]

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FT CARBOHYD 1257 1257 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1435 1435 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1633 1633 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1660 1660 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1684 1684 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1738 1738 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1848 1848 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2004 2004 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2409 2409 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2711 2711 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2721 2721 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT VARSPPLIC 349 2431 Missing (in isoform V3).
FT VARSPPLIC 2697 2738 /FTID=VSP_003091.
FT VARSPPLIC 2697 2738 PSAYQRTYBKRKLNKSSVKNDSINTSKHEHNSRWQETR
FT CONFLICT 2535 2539 AEREC -> NSARG (IN REF. 4).
FT SEQ 2738 AA, 300004 MW, 120A626D58BD6CA CRC64;
R -> KMSFRKNGQPCENKY (in isoform V1nt).
R /FTID=VSP_003092.

Query Match 10.6%; Score 134; DB 1; Length 2738;
Best Local Similarity 24.6%; Pred. No. 0.0008;
Matches 33; Conservative 23; Mismatches 70; Indels 8; Gaps 3;

QY 102 CDTNMYRYGDSGCFPRHLTWESKQYCDTMMATLTKIDNRNIVYIKARTLLIRVGL 161
DB 2511 CDYGMKFPQGCQCYKFAHRRRTDAARECHLQGHLLTSLSHBQMFVNRVGHDIQYGL 2570
QY 162 SRKSNKWEWKEWEDQVYS-ENM-----FEFLDGKGNKNCAYFHNGKCHPTGCENHYLM 215
DB 2571 NDRMFEDHFRWTDGSAIQYENMNPQDPSFSSAGEDCVVIIMHENGQMDVPC--NYHLT 2628
QY 216 CERKAGNTKVDLP 229
DB 2629 YTCCKGTVAQGP 2642

RESULT 42
PGCV_MOUSE STANDARD; PRT; 3358 AA.
ID PGCV_MOUSE
AC Q62059; Q62058; Q9CUT0;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DS Versican core protein precursor (large fibroblast proteoglycan)
DS (Chondroitin sulfate proteoglycan core protein 2) (Pg-M).
GN CSBG2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORM V0, V1 AND V2).
RC STRAIN=C57BL/6, and Swiss Webster; TISSUE=Brain;
RX MEDLINE=95181355; PubMed=7876137;
RA Zako M., Shimomura T., Ujita M., Ito K., Kimura K.;
RT "Multiple forms of mouse Pg-M, a large chondroitin sulfate
RT proteoglycan generated by alternative splicing";
RL J. Biol. Chem. 270:958-965(1995).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORM V3).
RC STRAIN=C57BL/6;
RX MEDLINE=95181355; PubMed=7876137;
RA Zako M., Shimomura T., Ujita M., Ito K., Kimura K.;
RT "Expression of Pg-M(V3), an alternatively spliced form of Pg-M
RT without a chondroitin sulfate attachment in region in mouse and human
RT tissues.";
RL J. Biol. Chem. 270:3914-3918(1995).
RN [3]
RP SEQUENCE OF 1-1692 FROM N.A. (ISOFORM V1).
RC STRAIN=C57BL/6; TISSUE=Skin;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,

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RA Aizawa K., Izawa Y., Nishi K., Kiyosawa H., Kondo S., Yamana K. I.,
RA Saito T., Okazaki Y., Gojibori T., Bono H., Kasukawa T., Saito R.,
RA Kacota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Kleeschmann W., Gaesteland T., Gissi C., King B., Kochiba H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schirni L.M., Stambli F., Suzuki R., Torita M., Wagner L., Mashio T.,
RA Sakai K., Okita T., Furuno M., Kono H., Baldarelli R., Barsh G.,
RA Blake J., Boileau D., Soejunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hoffmann M., Hume D.A., Kamita M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzaletti J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming D.,
RA Wyszewski B., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RN Nature 409:685-690(2001).
RP INTERACTION WITH FBLN1.
RX PubMed=10400671;
RA Asperger A., Adam S., Kostka G., Timp R., Heinegaard D.;
RT "Fibulin-1 is a ligand for the C-type lectin domains of aggrecan and
RT versican.";
RN J. Biol. Chem. 274:20444-20449(1999).
CC - FUNCTION: May play a role in extracellular signaling and in
CC connecting cells with the extracellular matrix. May take part in
CC the regulation of cell motility, growth and differentiation. Binds
CC hyaluronic acid.
CC - SUBUNIT: Interacts with FBLN1.
CC - SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC - ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=4;
CC Comment=Additional isoforms seem to exist;
CC Name=V0;
CC IsoId=Q62059-1; Sequence=Displayed;
CC Name=V1;
CC IsoId=Q62059-2; Sequence=VSP_003087, VSP_003088;
CC Name=V2;
CC IsoId=Q62059-3; Sequence=VSP_003089;
CC Name=V3;
CC IsoId=Q62059-4; Sequence=VSP_003087, VSP_003090;
CC - TISSUE SPECIFICITY: V2 is found only in brain.
CC - DEVELOPMENTAL STAGE: Disappears after the cartilage development.
CC - SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC - SIMILARITY: Contains 2 EGF-like domains.
CC - SIMILARITY: Contains 1 C-type lectin family domain.
CC - SIMILARITY: Contains 1 Sushi (SCR) domain.
CC - SIMILARITY: BELONGS TO THE AGGRECAN/VERSICAN PROTEOGLYCAN FAMILY.
CC
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CC
CC -----
CC EMBL; D16263; BAA03796.1; -
CC EMBL; D28599; -; NOT ANNOTATED - CDS.
CC EMBL; D32040; BAA06802.1; -
CC EMBL; AK014525; BAB29411.1; -
CC HSSP; P01132; 1EPG.
CC MGJ; MG1102889; CEP92.
CC InterPro: IPR000152; Aex_hydroxyl.
CC InterPro: IPR000742; EGF_2.
CC InterPro: IPR001881; EGF_Ca.
CC InterPro: IPR006209; EGF-like.
CC InterPro: IPR007110; IG-like.
CC InterPro: IPR003598; IG.
CC InterPro: IPR003066; IG_MHC.
CC InterPro: IPR001304; Lectin_C.

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DR InterPro; IPRO00538; Link.
DR InterPro; IPRO00436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF_2.
DR Pfam; PF00047; Ig_1.
DR Pfam; PF00059; lectin_C; 1.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF0193; Xlink; 2.
DR PRINTS; PRO1265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCR; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF_CA; 1.
DR SMART; SM00409; IG; 1.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS00641; C_TYPE_LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 2.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS00935; IG_Like; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
KW Hyaluronic acid; Alternative splicing.
FT SIGNAL; 1 20
FT CHAIN; 21 3358
FT DOMAIN; 21 146
FT DOMAIN; 167 244
FT DOMAIN; 265 346
FT DOMAIN; 348 1308
FT DOMAIN; 1309 3052
FT DOMAIN; 3090 3128
FT DOMAIN; 3139 3253
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FT DISULFID; 3056 3067
FT DISULFID; 3078 3087
FT DISULFID; 3132 3143
FT DISULFID; 3160 3252
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FT CARBOHYD; 351 351
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FT CARBOHYD; 807 807
FT CARBOHYD; 914 914
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FT CARBOHYD; 1372 1372
FT CARBOHYD; 1679 1679
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FT CARBOHYD; 2244 2244
FT CARBOHYD; 2362 2362
FT CARBOHYD; 2627 2627
FT CARBOHYD; 3030 3030
FT CARBOHYD; 3332 3332
FT CARBOHYD; 3342 3342
FT VARSPLIC; 348 348
FT VARSPLIC; 349 1308

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Missing (in isoform V1).

/FTId=VSP 003089.

Missing (in isoform V2).

/FTId=VSP 003089.

Missing (in isoform V3).

/FTId=VSP 003090.

A -> G (IN REF. 3).

MISSING (IN REF. 3).

I -> T (IN REF. 3).

TWNSNS -> CPGGCTA (IN REF. 3).

MM; 071B002BC0762D CRC64;

Query Match

Best Local Similarity 10.6%; Score 134; DB 1; Length 3358;

Matches 33; Conservative 23; Mismatches 70; Indels 8; Gaps 3;

QY 102 CPTNRYYGDSYGFPHNLTWESKQYCTDMNATLLKIDNKNIVYKARTHLIRWGL 161

DB 3132 CDYGNHKEFGQCYKFAHRTWDAERECRLOGAHTLSHSBQFVVRVGHDXWIGL 3191

QY 162 SRQXNENWAKMEDSGVIS-ENY-----PEFLDGGKNNMCAYFNHGKMHPTCCNKHYLM 215

DB 3192 NDKMFEDHPRMTDGSALQYENRPNQPSFFSAGEDCVIIVHENGQMDVPC--NYHLT 3249

QY 216 CERXAGMTKVDLP 229

DB 3256 YTCXKGYVACGQPP 3263

RESULT 43

PGCV_HUMAN STANDARD; PRT; 3396 AA.

AC P13671; P20754; Q13010; Q13189; Q15123; Q9UWU5;

DT 01-JAN-1990 (rel. 13) Created

DT 01-NOV-1997 (rel. 35) Last sequence update

DT 15-SEP-2003 (rel. 42) Last annotation update

DE Versican core protein precursor (large fibroblast proteoglycan)

DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M) (Glia)

DE hyaluronate-binding protein (GHA).

GN CSpg2.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

OX NCBI_Taxid=9606;

RN [1]

RP MEDLINE=95105188; PubMed=7528742;

RA Naso M.F.; Zimmermann D.R.; Iozzo R.V.;

RT "Characterization of the complete genomic structure of the human

versican gene and functional analysis of its promoter.";

RL J. Biol. Chem. 269:32399-33008(1994).

RN [2]

RP MEDLINE=95105187; PubMed=7806529;

RA Zimmermann D.R.; Ruoslahti E.;

RT "Multiple domains of the large fibroblast proteoglycan, versican.";

RL EMBO J. 8:2975-2981(1989).

RN [3]

RP MEDLINE=95105187; PubMed=7806529;

RA Zimmermann D.R.; Zimmermann D.R.;

RT "A novel glycosaminoglycan attachment domain identified in two

alternative splice variants of human versican.";

RL J. Biol. Chem. 269:32392-32398(1994).

RN [4]

RP MEDLINE=8007514; PubMed=2820964;

RA Kruijsen T.; Gahlen K.R.; Ruoslahti E.;

RT "A fibroblast chondroitin sulfate proteoglycan core protein contains

lectin-like and growth factor-like sequences.";

RL J. Biol. Chem. 262:13120-13125(1987).

FT CARBOHYD 235 235 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 329 329 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 529 529 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 709 709 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 948 948 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 1409 1409 N-LINKED (GLCNAC. . .) (POTENTIAL).
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 FT CARBOHYD 2679 2679 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 2748 2748 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 2762 2762 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 3069 3069 N-LINKED (GLCNAC. . .) (POTENTIAL).
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 FT CARBOHYD 3232 3232 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 3545 3545 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT VARSPLIC 485 1411 Missing (in isoform V1).
 /FtId=VSP_003093.
 SQ SEQUENCE 3562 AA; 388078 MW; 98C565B88C1602D2 CRC64;

Query Match 10.5%; Score 132; DB 1; Length 3562;
 Best Local Similarity 24.6%; Pred. No. 0.0016;
 Matches 33; Conservative 23; Mismatches 70; Indels 8; Gaps 3;

QY 102 CDTWRYRGDSYGFPRHNTWESKOYCTDMAITKINRNTVEYIKARTHLIRWGL 161
 3334 CDYWMHFFQGCCTYGFARHTWDTAERBCRLQGHLSITISHBQVVRNGDYQITGL 3593
 Db 162 SROKSNWVKWEDSVIS-ENN-----FEELDEKGNMNCAYFENGMRHPTFCNKAYLM 215
 3394 NDKWFEDPFWTIDSPLOQYENWRNQPDSFSAEDCVIIMHANGMNVPC-ANHLT 3451
 QY 216 CERAGMTKYDQLP 229
 Db 3452 YTCCKGTVACQPP 3465

RESULT 45
 MANR HUMAN STANDARD; PRT; 1456 AA.
 AC P22897;
 DT 01-AUG-1991 (Rel. 19, Created)
 DT 01-AUG-1991 (Rel. 19, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Macrophage mannose receptor precursor (MMR) (CD206 antigen).
 GN MRC1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 OX NCBI_Taxid=9606;
 RN [1]
 R2 SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
 RC TISSUE=Placenta;
 RX MEDLINE=90324192; PubMed=2373685;
 RA Taylor M.E., Conary J.T., Lennarz M.R., Stahl P.D., Drickamer K.;
 RT "Primary structure of the mannose receptor contains multiple motifs
 resembling carbohydrate-recognition domains.";
 RL J. Biol. Chem. 265:12156-12162(1990).
 RN [2]
 RN SEQUENCE FROM N.A.
 RX MEDLINE=93052405; PubMed=1294118;
 RA Kim S.J., Ruiz N., Bezouska K., Drickamer K.;
 RT "Organization of the gene encoding the human macrophage mannose
 receptor (MRC1).";
 RL Genomics 14:721-727(1992).
 RN [3]

RP STUDIES ON THE BINDING OF INDIVIDUAL LECTIN DOMAINS.
 RX MEDLINE=92112893; PubMed=1730714;
 RA Taylor M.E., Bezouska K., Drickamer K.;
 RT "Contribution to ligand binding by multiple carbohydrate-recognition
 RT domains in the macrophage mannose receptor.";
 RL J. Biol. Chem. 267:1719-1726(1992).
 RN [4]
 RP X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS) OF 642-788.
 RX MEDLINE=20347275; PubMed=10779515;
 RA Feinberg H., Park-Snyder S., Kolatkar A.R., Heise C.T., Taylor M.E.,
 RA Weis W.I.;
 RT "Structure of a C-type carbohydrate recognition domain from the
 RT macrophage mannose receptor.";
 RL J. Biol. Chem. 275:21539-21548(2000).
 CC - FUNCTION: MEDIATES THE ENDOCYTOSIS OF GLYCOPROTEIN BY
 CC MACROPHAGES, IN SEVERAL RECOGNITION AND UPTAKE PROCESSES.
 CC - SUBCELLULAR LOCATION: Type 1 membrane protein.
 CC - MISCELLANEOUS: CRDS 1-3 HAVE AT MOST VERY WEAK AFFINITY FOR
 CC CARBOHYDRATE. CRD 4 SHOWS THE HIGHEST AFFINITY BINDING AND HAS
 CC MULTISPECIFICITY FOR A VARIETY OF MONOSACCHARIDES. AT LEAST 3 CRDS
 CC (4, 5, AND 7) ARE REQUIRED FOR HIGH AFFINITY BINDING AND
 CC ENDOCYTOSIS OF MULTIVALENT GLYCOCONJUGATES.
 CC - SIMILARITY: Contains 8 C-type lectin family domains.
 CC - DATABASE: NMR:PROW; NOTE=PROW 2:85-89(2001);
 CC WWW=http://www.ncbi.nlm.nih.gov/prow/guide/164434535.g.htm".

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CC -----
 DR EMBL; J05550; AAA59868.1; -;
 DR EMBL; M93221; AAA60389.1; -;
 DR EMBL; M93192; AAA60389.1; JOINED.
 DR EMBL; M93193; AAA60389.1; JOINED.
 DR EMBL; M93194; AAA60389.1; JOINED.
 DR EMBL; M93195; AAA60389.1; JOINED.
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 DR EMBL; M93219; AAA60389.1; JOINED.
 DR EMBL; M93220; AAA60389.1; JOINED.
 DR PIR; A36563; A36563.
 DR PDB; 1EGG; 30-AUG-00.
 DR PDB; 1EGT; 30-AUG-00.
 DR Genew; HGNC:7228; MRC1.
 DR MIM; 153618; -;
 DR GO; GO:0005867; C:integral to plasma membrane; TMS.
 DR GO; GO:0005537; F:mannose binding activity; TMS.

DR GO; GO:0004872; F:receptor activity; TAS.
 DR GO; GO:006898; P:receptor mediated endocytosis; TAS.
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 DR InterPro; IPR000562; FN_Type_II.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR00772; Ricin_B_lectin.
 DR Pfam; PF00040; fn2; 1.
 DR Pfam; PF00059; lectin_c; 8.
 DR Pfam; PF00652; Ricin_B_lectin; 2.
 DR PRINTS; PR00013; FNTPBII.
 DR PRINTS; PR00356; ANTIFREEZEII.
 DR ProDom; PD000995; FN_Type_II; 1.
 DR SMART; SM0034; CLECT; 8.
 DR SMART; SM0059; FN2; 1.
 DR SMART; SM0048; RICIN; 1.
 DR PROSITE; PS00615; C_Type_Lectin_1; 6.
 DR PROSITE; PS50041; C_Type_Lectin_2; 8.
 DR PROSITE; PS00023; FIBRONECTIN_2; 1.
 DR PROSITE; PS50231; RICIN_B_Lectin; 1.
 KW Receptor; Signal; Calcium-binding; Transmembrane; Repeat; Glycoprotein; Endocytosis; Macrophage; Lectin; Antigen; 3D-structure.
 KW SIGNAL; 1 18
 FT CHAIN 19 1456 MACROPHAGE MANNOSE RECEPTOR.
 FT DOMAIN 19 1383 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 1384 1411 POTENTIAL.
 FT DOMAIN 1412 1456 CYTOPLASMIC (POTENTIAL).
 FT DOMAIN 22 142 RICIN B-TYPE LECTIN.
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 FT DOMAIN 360 490 C-TYPE LECTIN 2 (LONG FORM).
 FT DOMAIN 502 629 C-TYPE LECTIN 3 (LONG FORM).
 FT DOMAIN 644 781 C-TYPE LECTIN 4 (LONG FORM).
 FT DOMAIN 805 926 C-TYPE LECTIN 5 (LONG FORM).
 FT DOMAIN 943 1083 C-TYPE LECTIN 6 (LONG FORM).
 FT DOMAIN 1100 1216 C-TYPE LECTIN 7 (LONG FORM).
 FT DOMAIN 1228 1359 C-TYPE LECTIN 8 (LONG FORM).
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 FT CARBOHYD 344 344 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 529 529 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 926 926 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 930 930 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 1160 1160 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 1205 1205 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 1311 1311 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT TURN 648 649
 FT STRAND 651 652
 FT TURN 654 655
 FT STRAND 658 663
 FT HELIX 667 669
 FT STRAND 671 671
 FT HELIX 673 683
 FT TURN 684 684
 FT STRAND 686 687
 FT HELIX 693 705
 FT TURN 706 707
 FT TURN 709 710
 FT STRAND 712 718
 FT TURN 723 724
 FT STRAND 727 727
 FT TURN 729 730
 FT STRAND 733 733
 FT TURN 741 742
 FT HELIX 746 748
 FT TURN 752 757
 FT STRAND 758 761
 FT TURN 764 768
 FT STRAND 769 770
 FT TURN 773 780
 FT STRAND 781 782
 SEQUENCE 1456 AA; 166011 MW; 26455AF3C576A5E3 CRC64;

Query Match 10.3%; Score 130; DB 1; length 1456;
 Best Local Similarity 21.4%; Pred. No. 0.0009;
 Matches 60; Conservative 38; Mismatches 94; Indels 88; Gaps 15;

QY 3 DEDQYITLNKTR-----KPLVSVGPASSFW-----MWVMLTLLIL----- 40
 DB 534 NENAYLTITEDRYEQAFVTSVGLREPKYFWTGLSDIQYGTQWTFEEVRFTHNSD 592
 QY 41 -----CVGWVGLVALGIMSVQRYNYLDENENRTGTLQOLAKFCQYVVKOSELKG 93
 DB 593 MPGRKPGQVMRTG-INGGLMDVXK-----ODEKAKFYCKHNAEYV----- 633
 QY 94 FKHKKCP-----CTTWRYGDS-----CYGF-----RHNTWEESKQYCTDMNAT 137
 DB 634 ---HPRKPTTFEDKCEPW---GASRTSLCFPLVAKGKIEKKTWFSRDFCALGDL 687
 QY 138 LKINRNYVEYI-----XARTHLIRWVGSRSQNSNWKWEDSVLSNNFFFLDQKG 131
 DB 688 ASINKEEQQTMTLTASGSYHKLFWLGLYGSISGFTWSDSPVS---YENWAYGEP 744

QY 192 N-MNCAVFHNGXHPF-----CENKHYLCERXAGMT 223
 DB 745 NNQNVAYCGELKGDPTMSWMDINCEHNTWICQIQGQT 784

RESULT 46
 PA2R_BOVIN STANDARD; FRT; 1463 AA.
 ID PA2R_BOVIN
 AC P49259;
 DT 01-FEB-1996 (Rel. 33, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE 180 kDa secretory phospholipase A2 receptor precursor (PA2-R).
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Bovinae; Bos.
 CX NCBI_TaxID=9913;
 RN [1]
 RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
 RX MEDLINE=94164945; Pubmed=7509792;
 RA Ishizaki J., Hanasaki K., Higashino K.-I., Kishino J., Kikuchi N.,
 RA Ohara O., Arita H.,
 RT "Molecular cloning of putative group I phospholipase A2 receptor";
 RL J. Biol. Chem. 269:5897-5904(1994).
 CC -!- FUNCTION: MAY HAVE A KEY ROLE IN NORMAL AND PATHOLOGICAL ACTIONS
 CC OF SECRETORY PHOSPHOLIPASE A2. ALSO BINDS TO SNAKE PA2-LIKE
 CC TOXINS.
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- SIMILARITY: Contains 8 C-type lectin family domains.
 CC -!- SIMILARITY: Contains 1 ricin B-type lectin domain.
 CC -----
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 CC or send an email to license@sib-sib.ch).
 CC -----
 DR EMBL; D16109; BAA03683.1; -
 DR FRT; A53210; A53210.
 DR HSPD; P02751; 2FN2.
 DR InterPro; IPR000562; FN_Type_II.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR00772; Ricin_B_lectin.
 DR Pfam; PF00040; fn2; 1.
 DR Pfam; PF00059; lectin_c; 8.
 DR Pfam; PF00652; Ricin_B_lectin; 1.
 DR PRINTS; PR00013; FNTPBII.
 DR ProDom; PD000995; FN_Type_II; 1.
 DR SMART; SM0034; CLECT; 8.

CC BASOPHILS AND MAST CELLS AND LOW AFFINITY RECEPTORS ON LYMPHOCYTES
 CC AND MONOCYTES.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -1- DATABASE: NAME=PROW; NOTE=CD guide CD23 entry;
 CC WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd23.htm".
 CC -----
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 CC -----
 CC EMBL: M15059; AA552434.1; -
 CC EMBL: M14766; AA552435.1; -
 CC EMBL: X04772; CA28465.1; -
 CC EMBL: M23562; AA52433.1; -
 CC PIR: A26067; LNHUER.
 CC PDB: 1HL1; 31-JAN-94.
 CC PDB: 1KJ5; 03-APR-96.
 CC Gene: HGNC:3612; FCER2.
 CC MIM: 153445; -
 CC GO: GO:0008687; C: integral to plasma membrane; TAS.
 CC GO: GO:0005178; F: integrin binding activity; TAS.
 CC InterPro: IPR002353; AntiFreeze1.
 CC InterPro: IPR001304; Lectin_C.
 CC Pfam: PF00059; Lectin_c; 1.
 CC PRINTS: PRO0356; ANTIFREEZE1.
 CC SMART: SM00034; CLECT; 1.
 CC PROSITE: PS00615; C TYPE LECTIN 1; 1.
 CC PROSITE: PS00611; C TYPE LECTIN 2; 1.
 CC 195-binding protein; Transmembrane; Glycoprotein; Receptor; B-cell;
 CC Repeat; Lectin; Signal-anchor; Alternative splicing; 3D-structure.
 CC CHAIN 1 321
 CC DOMAIN 150 321
 CC TRANSMEM 22 47
 CC
 CC DOMAIN 48 321
 CC SITE 162 284
 CC SITE 149 150
 CC REPEAT 69 89
 CC REPEAT 90 110
 CC REPEAT 111 131
 CC DISULFID 160 288
 CC DISULFID 163 174
 CC DISULFID 191 282
 CC DISULFID 259 273
 CC CARBOHYD 63 63
 CC VARSPLIC 1 7
 CC
 CC CONFLICT 269 269
 CC STRAND 174 177
 CC HELIX 184 193
 CC TURN 194 195
 CC STRAND 197 198
 CC HELIX 204 214
 CC TURN 215 216
 CC STRAND 219 228
 CC TURN 229 230
 CC STRAND 231 234
 CC TURN 235 236
 CC STRAND 239 239
 CC STRAND 245 245
 CC TURN 247 248
 CC TURN 254 255
 CC STRAND 259 262
 CC TURN 264 265
 CC STRAND 271 271
 CC TURN 273 274
 CC STRAND 281 284
 CC SEQUENCE 321 AA; 36468 MW; F86708C0E6515B87 CRC64;

Query Match 9.9%; Score 124.5; DB 1; Length 321;
 Best Local Similarity 25.0%; Pred. No. 0.00052;
 Matches 42; Conservative 30; Mismatches 85; Indels 11; Gaps 8;
 QY 63 QDENNRRTTTLQQLAKRFQCYVVK-OSELKGFYKHKSPCDTNNRYGDSQVGFRRHTL 121
 Db 126 QILNERNEMS--DLERLRERTTKLRMEIQ-VSSGVCNCTCEKINPFRKCIYFQKTK 182
 QY 122 TWESKQYCTDNATLTKIDNENIVEYI-KAPTHLIRVGLSRQSNRYWKEDGSEIVE 180
 Db 183 QVHARVACDDMEQIVSIHSPEQPLTKHSHSTISGLNRLDKGSFIWVDSGHVDY 242
 QY 181 MNF---EFLPDGKGNMNCAYFE-NKMEYFENK-HYIMCRKRGMT 223
 Db 243 SNWAPGPTSRSQGE-DCVMWRSGRWDAFCDKZLGAWVCDRLATCT 289
 RESULT 48
 PGN RAT
 ID PGN RAT STANDARD; PRT; 1257 AA.
 AC P53067;
 DT 01-OCT-1996 (Rel. 34, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Neurocan core protein precursor (Chondroitin sulfate proteoglycan 3)
 DE (245 kDa early postnatal core glycoprotein) [Contains: 156 kDa adult
 DE core glycoprotein].
 GN CSPG3 OR NCAN.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eultheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]_
 RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
 RC STRAIN=Sprague-Dawley; TISSUE=Brain;
 RX MEDLINE=92406907; PubMed=1326557;
 RA Rauch U., Karthikeyan L., Maurel P., Margolis R.U., Margolis R.K.;
 RT "Cloning and primary structure of neurocan, a developmentally
 RT regulated, aggregating chondroitin sulfate proteoglycan of brain.";
 RL J. Biol. Chem. 267:19536-19547(1992).
 RN [2]
 RP CHARACTERIZATION.
 RX MEDLINE=94230574; PubMed=7513709;
 RA Friedlander D.R., Miley P., Karthikeyan L., Margolis R.K.,
 RA Margolis R.U., Grunet M.;
 RT "The neuronal chondroitin sulfate proteoglycan neurocan binds to the
 RT neural cell adhesion molecules Ng-CAM/L1/NILE and N-CAM, and inhibits
 RT neuronal adhesion and neurite outgrowth.";
 RL J. Cell Biol. 125:663-680(1994).
 CC -1- FUNCTION: May modulate neuronal adhesion and neurite growth during
 CC development by binding to neural cell adhesion molecules (NG-CAM
 CC and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronic
 CC acid.
 CC -1- TISSUE SPECIFICITY: EARLY POSTNATAL AND ADULT BRAIN; NOT EXPRESSED
 CC IN KIDNEY, LUNG, LIVER AND MUSCLE.
 CC -1- PFM: CONTAINS MOSTLY CHONDROITIN SULFATE, BUT ALSO N-LINKED AND
 CC O-LINKED OLIGOSACCHARIDES (BY SIMILARITY).
 CC -1- PFM: TWO ISOPFORMS WERE FOUND THAT PROBABLY ARISE BY PROTEOLYTIC
 CC DEGRADATION. THE SMALL ISOFORM IS PREDOMINANT IN EARLY POSTNATAL
 CC BRAIN, THE SMALL ISOFORM IS FOUND IN ADULT BRAIN.
 CC -1- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -1- SIMILARITY: Contains 2 EGF-like domains.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -1- SIMILARITY: BELONGS TO THE AGGRECAN/VERSICAN PROTEOGLYCAN FAMILY.
 CC -----
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CC EMBL; M97161; AAC37679.1; ..

CC PIR; S28764; S28764.

CC HSSP; P00740; 1EDM.

DR InterPro; IPRO02353; AntiFreeze11.

DR InterPro; IPRO00152; Asx_hydroxyl.

DR InterPro; IPRO00742; EGF_2.

DR InterPro; IPRO01881; EGF_Ca.

DR InterPro; IPRO06209; EGF_Like.

DR InterPro; IPRO07110; IG_Like.

DR InterPro; IPRO03599; IG.

DR InterPro; IPRO03006; IG_MHC.

DR InterPro; IPRO01304; Lectin_C.

DR InterPro; IPRO00538; Link.

DR InterPro; IPRO00436; Sush_SCR_CCP.

DR Pfam; PF00008; EGF_2.

DR Pfam; PF00047; IG_1.

DR Pfam; PF00059; lectin_C; 1.

DR Pfam; PF00084; sush; 1.

DR Pfam; PF0193; Xlink; 2.

DR PRINTS; PRO1265; LINKMODULE.

DR PRINTS; PRO0356; ANTIFREEZE11.

DR ProDom; PD000918; Link; 2.

DR SMART; SM00032; CCF; 1.

DR SMART; SM00034; CECT; 1.

DR SMART; SM00179; EGF_CA; 1.

DR SMART; SM00409; IG; 1.

DR SMART; SM00445; Link; 2.

DR PROSITE; PS00010; ASX_HYDROXYL; 1.

DR PROSITE; PS00615; C TYPE LECTIN 1; 1.

DR PROSITE; PS50041; C TYPE LECTIN 2; 1.

DR PROSITE; PS00022; EGF_1; 3.

DR PROSITE; PS01186; EGF_2; 1.

DR PROSITE; PS01187; EGF_CA; 1.

DR PROSITE; PS00835; IG_Like; 1.

DR PROSITE; PS01241; Link; 2.

KW Glycoprotein; Hyaluronic acid; Proteoglycan; Immunoglobulin domain;

KW EGF-like domain; Calcium; Repeat; Lectin; Sush; Signal.

FT SIGNAL 1 22

FT CHAIN 23 1257 NEUROCAN CORE PROTEIN.

FT DOMAIN 639 1257 150 kDa ADULT CORE GLYCOPROTEIN.

FT DOMAIN 37 157 IG-Like V-TYPE.

FT DOMAIN 158 253 LINK 1.

FT DOMAIN 259 355 LINK 2.

FT DOMAIN 949 985 EGF-Like 1.

FT DOMAIN 987 1023 EGF-Like 2, CALCIUM-BINDING (POTENTIAL).

FT DOMAIN 1025 1154 C-TYPE LECTIN.

FT DOMAIN 1155 1213 SUSHI.

FT DISULFID 58 139 BY SIMILARITY.

FT DISULFID 181 252 BY SIMILARITY.

FT DISULFID 205 226 BY SIMILARITY.

FT DISULFID 279 354 BY SIMILARITY.

FT DISULFID 303 324 BY SIMILARITY.

FT DISULFID 953 964 BY SIMILARITY.

FT DISULFID 958 973 BY SIMILARITY.

FT DISULFID 975 984 BY SIMILARITY.

FT DISULFID 1029 1040 BY SIMILARITY.

FT DISULFID 1057 1149 BY SIMILARITY.

FT DISULFID 1125 1141 BY SIMILARITY.

FT DISULFID 1156 1199 BY SIMILARITY.

FT DISULFID 1185 1212 BY SIMILARITY.

FT CARBOHYD 121 121 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 131 131 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 329 339 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 737 737 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 944 944 O-LINKED (XYL. . .) (CHONDROITIN SULFATE).

FT CARBOHYD 967 967 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 1164 1164 N-LINKED (GLCNAC. . .) (POTENTIAL).

SO SEQUENCE 1257 AA; 135544 MW; 992B33DCFA19E1B CRC64;

Query Match 9.8%; Score 124; DR 1; Length 1257;

Best Local Similarity 22.1%; Pred. No. 0.0027;

Matches 30; Conservative 27; Mismatches 69; Indels 10; Gaps 4;

QY 93 TRKHKCP-----CTNRYIGDSCYCPFRNLTWESKQYTDVKNATLKDNRNIVY 148

DB 1016 SYGNLICEDETEGCRGWKHEFGCHRYFAHRAWEDARDRRAGHILTSVSPENHF 1075

QY 149 IAAATHLIRVGLSOKSNVWKWEDGVIS-ENNEFELEDG--KGNMCAVF---HNK 202

DB 1076 IISFGHNSWIGLNDYTRDPQMTDNTGLQYENRERKQDPFPAAGEDCVVMAHNGR 1135

QY 203 MHPTECNKYLDCER 218

DB 1136 WNDVPCNYLRYVCKK 1151

RESULT 49

ID LITB HUMAN STANDARD; PRT; 166 AA.

AC P48304;

DT 01-FEB-1996 (rel. 33, Last sequence update)

DT 01-FEB-1996 (rel. 33, Last sequence update)

DT 28-FEB-2003 (rel. 41, Last annotation update)

DE Lithostathine 1 beta precursor (Regenerating protein I beta).

GN REG1B OR REG1L.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

OX NCBI_TaxId=9606;

RN [1]

RP SEQUENCE FROM N.A.

RC TISSUE=Pancreas;

RX MEDLINE=9453997; PubMed=8110835;

RA Morizumi S., Watanabe T., Uno M., Nakagawara K.I., Suzuki Y., Miyashita H., Yonekura H., Okamoto H.,

RT "Isolation, structural determination and expression of a novel reg gene, human reg1 beta."

RL Biochim. Biophys. Acta 1217:199-202(1994).

RN [2]

RP SEQUENCE FROM N.A.

RX MEDLINE=9335167; PubMed=8348956;

RA Bartoli C., Gharib B., Giorgi D., Sansonetti A., Degorn J.-C., Borge-LeFranc U.;

RT "A gene homologous to the reg gene is expressed in the human pancreas."

RL FEBS Lett. 327:289-293(1993).

RN [3]

RP CARBOHYDRATE-LINKAGE SITE.

RX MEDLINE=9531286; PubMed=7607222;

RA De Reggi M., Capon C., Gharib B., Wieruszski J.M., Michel R., Fournet B.;

RT "The glycan moiety of human pancreatic lithostathine. Structure characterization and possible pathophysiological implications."

RL Eur. J. Biochem. 230:503-510(1995).

CC -1- FUNCTION: MIGHT ACT AS AN INHIBITOR OF SPONTANEOUS CALCIUM CARBONATE PRECIPITATION. MAY BE ASSOCIATED WITH NEURONAL SPROUTING IN BRAIN, AND WITH BRAIN AND PANCREAS REGENERATION.

CC -1- PTM: ALL O-LINKED GLYCANS CONSIST OF GAL-GLCNAC-GAL-GLCNAC TETRASACCHARIDE CORE AND GET ELONGATED (MICROHETEROGENEITY).

CC -1- SIMILARITY: Contains 1 C-type lectin family domain.

CC -----

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CC EMBL; D17291; BAA04124.1; ..

DR EMBL; D16816; BAA04091.1; ..

DR EMBL; L08010; AAA18204.1; ..

DR PIR; S34591; RGHUB.

DR HSSP; P05451; ILIT.

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DR   Genew; HGNC:3952; RBGLB.
DR   MIM; 167771; -.
DR   GO; GO:0008283; P:cell proliferation; TAS.
DR   InterPro; IPR001304; Lectin_C.
DR   InterPro; IPR003990; Pancratis_ac.
DR   Pfam; PF00059; Lectin_c1.
DR   PRINTS; PRO1504; PNCRAEATISAP.
DR   SMART; SM00034; CLECT; 1.
DR   PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR   PROSITE; PS50041; C-TYPE LECTIN_2; 1.
DR   GlycoProtein; Signal; Lectin; Pyroglutamate carboxylic acid.
FT   SIGNAL      1      22
FT   CHAIN       23      166
FT   DOMAIN      34      164
FT   MOD_RES     23      23
FT   CARBOHYD    27      27
FT   DISULFID    36      47
FT   DISULFID    64      162
FT   DISULFID    137     154
SQ   SEQUENCE   166 AA; 18665 MW; DIDC20E1IAESDD8 CRC64;

Query Match
Best Local Similarity 24.3%; Score 123; DB 1; Length 166;
Matches 35; Conservative 16; Mismatches 53; Indels 40; Gaps 5;

QY  102 CDINWRYGDSYGFPHNLTWESKQYCTDNN-----ATLK-IDN 142
DB  36 CPBGTNAYRSYCYFENEDPEIWDADLYCCMNSGNLVSITLQAGAFVSLIESSTD 95
QY  143 RNIVRYIKARTHLIRWYGLSRKSNVYKMGDSVISENFELEDGKGN-----MNC 195
DB  96 SNV-----WGLHDPKPKRRHWSGSLVSYKSWDTSPSSAANGYCASLTSC 143
QY  196 AYENNGMHPFCENKHYLMCEK 219
DB  144 SGFK-KWKDSCEKKFSVCKFK 165

RESULT 50
V239_FOMFV
ID   V239_FOMFV STANDARD; PRT; 163 AA.
AC   P14371; Q9U500;
DT   01-JAN-1990 (Rel. 13, Created)
DI   16-OCT-2001 (Rel. 40, Last sequence update)
DE   Putative C-type lectin protein FPV239 (BamHI-ORF8).
GN   FPV239.
OS   Fowlpox virus (FPV).
OC   Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
OX   NCBI_TaxID=10261;
RN   [1]
RP   SEQUENCE FROM N.A.
RA   Alonso C.L., Tulman E.R., Lu Z., Zsak L., Kutish G.F., Rock D.L.;
RT   "The genome of fowlpox virus."
RL   J. Virol. 74:3815-3831(2000).
RN   [2]
RP   SEQUENCE OF 1-116 FROM N.A.
RA   STRAIN=FP-9 / Isolate HP-438;
RA   MEDLINE=88229622; PubMed=2836548;
RT   "Sequence analysis of an 11.2 kilobase, near-terminal, BamHI fragment
RT   of fowlpox virus."
RL   J. Gen. Virol. 69:1025-1040(1988).
CC   -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC   -----
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CC   or send an email to license@isb-sib.ch).
CC   -----
DR   EMBL; AF198100; AA044583.1; -.
DR   EMBL; D00295; SAA00203.1; -.
DR   PIR; H29963; MWZF8.
DR   HSSP; P05140; 2AFP.
DR   InterPro; IPR001304; Lectin_C.
DR   Pfam; PF00059; Lectin_c1.
DR   SMART; SM00034; CLECT; 1.
DR   PROSITE; PS00615; C-TYPE LECTIN_1; FALSE_NEG.
DR   PROSITE; PS50041; C-TYPE LECTIN_2; 1.
DR   Hypothetical protein; Lectin.
FT   DOMAIN      48      159
FT   DOKAIN      48      159
SQ   SEQUENCE   163 AA; 18635 MW; 5156DC8528855532 CRC64;

Query Match
Best Local Similarity 27.0%; Score 122; DB 1; Length 163;
Matches 30; Conservative 17; Mismatches 52; Indels 12; Gaps 3;

QY  102 CDINWRYGDSYGFPHNLTWESKQYCTDNNATILKIDNN-----TVEYIKARTHLIR 157
DB  48 CKEGWGYNNKCYFFSEKNNKSLAVRCXDMQHLTISISKKEEFILYKGGGNH--- 104
QY  158 WGLSRKSNVYKMGDSVISENFELEDGKGNMCAVFNCKKAPTPC 208
DB  105 WIGLEKVDPRGTWKLKEDG-----SYDNYIPFIDIGICATLSRSTWSSFC 150

Search completed: December 3, 2003, 08:46:32
Job time : 20 secs

```

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 3, 2003, 08:43:47 : Search time 35 Seconds

(without alignments)
1688,401 Million cell updates/sec

Title: US-09-903-190-97
Perfect score: 1261
Sequence: 1 MDDDDGYTLINIKTRKRALV.....NKHVLNCFKAKGKRVQPL 223

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 830525

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

1: SPTRMBL_23:*
2: sp_archaea:*
3: sp_bacteria:*
4: sp_fungi:*
5: sp_human:*
6: sp_invertebrate:*
7: sp_mammal:*
8: sp_mhc:*
9: sp_organelle:*
10: sp_plant:*
11: sp_rhizom:*
12: sp_rhizom:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacteriap:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1234	97.9	229	4	Q9P126	Q9P126 homo sapien
2	1057.5	83.9	166	4	Q8NHR6	Q8NHR6 homo sapien
3	790	62.6	229	11	Q9U199	Q9U199 mus musculi
4	352.5	28.0	280	4	Q8NCO1	Q8NCO1 homo sapien
5	351.5	27.9	280	4	Q8IUV7	Q8IUV7 homo sapien
6	346.5	27.5	280	4	Q9NZ13	Q9NZ13 homo sapien
7	344.5	27.3	259	11	Q8BMV2	Q8BMV2 mus musculi
8	342.5	27.2	259	11	Q8BMV2	Q8BMV2 mus musculi
9	320	25.4	275	11	Q9D403	Q9D403 mus musculi
10	299.5	23.6	247	4	Q9BMX2	Q9BMX2 homo sapien
11	291	23.1	244	11	Q8K114	Q8K114 mus musculi
12	288	22.8	244	11	Q9U150	Q9U150 mus musculi
13	287.5	22.8	247	6	Q8H2E8	Q8H2E8 macaca mulatta
14	279.5	22.2	201	4	Q9H1K3	Q9H1K3 homo sapien
15	266.5	21.1	278	6	Q9X1B8	Q9X1B8 cryptotagulus
16	265	21.0	265	4	Q8TD06	Q8TD06 homo sapien

17	254.5	20.2	274	6 Q9TK7	Q9TK7 sus scrofa
18	249.5	19.8	273	4 P78380	P78380 homo sapien
19	242.5	19.2	270	6 P79391	P79391 bos taurus
20	234.5	18.6	267	11 Q8BN96	Q8BN96 mus muscitu
21	233.5	18.5	238	11 Q8BRU4	Q8BRU4 mus muscitu
22	232.5	18.4	206	11 Q8BZ31	Q8BZ31 mus muscitu
23	230.5	18.3	168	4 Q9EP47	Q9EP47 mus sapien
24	227.5	18.0	293	11 Q8CB84	Q8CB84 mus muscitu
25	222	17.6	216	6 Q8MUH1	Q8MUH1 mus muscitu
26	222	17.2	232	6 Q8MUH0	Q8MUH0 mus muscitu
27	217	17.2	232	11 Q54709	Q54709 mus muscitu
28	211.5	16.8	216	6 Q9MZ37	Q9MZ37 mus muscitu
29	208	16.5	185	6 Q9MZ37	Q9MZ37 mus muscitu
30	205	16.3	214	6 Q9MZ37	Q9MZ37 mus muscitu
31	204.5	16.2	215	11 Q70215	Q70215 sus scrofa
32	200.5	15.9	277	6 Q8SP06	Q8SP06 mus muscitu
33	196	15.5	179	6 Q8MHY9	Q8MHY9 mus muscitu
34	196	15.5	179	11 Q35778	Q35778 mus muscitu
35	195.5	15.5	226	11 Q8CUC7	Q8CUC7 mus muscitu
36	195	15.5	179	6 Q8MHY8	Q8MHY8 mus muscitu
37	194	15.4	179	6 Q8MJ14	Q8MJ14 mus muscitu
38	193	15.3	179	6 Q8MJ13	Q8MJ13 mus muscitu
39	192.5	15.3	231	11 Q8K4F1	Q8K4F1 mus muscitu
40	191.5	15.2	179	11 Q54708	Q54708 mus muscitu
41	191.5	15.2	222	4 Q14538	Q14538 mus muscitu
42	191	15.1	223	11 Q62983	Q62983 mus muscitu
43	190	15.1	364	11 Q70156	Q70156 mus muscitu
44	190	15.1	364	11 Q70156	Q70156 mus muscitu
45	189.5	15.0	285	6 Q9BDH2	Q9BDH2 mus muscitu
46	188.5	14.9	280	11 Q8K3G1	Q8K3G1 mus muscitu
47	187.5	14.9	179	11 Q54707	Q54707 mus muscitu
48	185.5	14.7	221	4 Q9NZS2	Q9NZS2 mus muscitu
49	185	14.7	189	4 Q96DR9	Q96DR9 mus muscitu
50	184.5	14.6	282	6 Q8MJ12	Q8MJ12 mus muscitu
51	183.5	14.6	208	11 Q91ZM7	Q91ZM7 mus muscitu
52	181	14.4	192	4 Q96PA5	Q96PA5 mus muscitu
53	181	14.4	353	11 Q95D09	Q95D09 mus muscitu
54	180.5	14.3	226	6 Q95L94	Q95L94 mus muscitu
55	179.5	14.2	376	4 Q9BX33	Q9BX33 mus muscitu
56	179.5	14.2	399	4 Q9H2X3	Q9H2X3 mus muscitu
57	178	14.1	233	6 Q8MJH7	Q8MJH7 mus muscitu
58	178	14.1	233	6 Q95L92	Q95L92 mus muscitu
59	178	14.1	233	6 Q8MJH6	Q8MJH6 mus muscitu
60	177.5	14.1	80	6 Q95UG5	Q95UG5 mus muscitu
61	177.5	14.1	445	6 Q8HYC0	Q8HYC0 mus muscitu
62	176.5	14.0	80	6 Q95UG6	Q95UG6 mus muscitu
63	176.5	14.0	263	4 Q96QP3	Q96QP3 mus muscitu
64	176.5	14.0	445	6 Q8HYO5	Q8HYO5 mus muscitu
65	176	14.0	233	6 Q8MJH0	Q8MJH0 mus muscitu
66	176	14.0	233	6 Q8MJH5	Q8MJH5 mus muscitu
67	176	14.0	233	6 Q8MJH9	Q8MJH9 mus muscitu
68	175.5	13.9	188	11 Q64335	Q64335 mus muscitu
69	175.5	13.9	275	11 Q62982	Q62982 mus muscitu
70	175	13.9	256	6 Q8MTS5	Q8MTS5 mus muscitu
71	175	13.9	273	11 Q9JMA4	Q9JMA4 mus muscitu
72	175	13.9	274	11 Q8BUC9	Q8BUC9 mus muscitu
73	174.5	13.8	376	6 Q8HYO6	Q8HYO6 mus muscitu
74	174	13.8	233	6 Q8MJH1	Q8MJH1 mus muscitu
75	174	13.8	233	6 Q8MJH8	Q8MJH8 mus muscitu
76	174	13.8	332	4 Q96QP5	Q96QP5 mus muscitu
77	173.5	13.8	231	6 Q8MT05	Q8MT05 mus muscitu
78	173.5	13.8	257	13 Q90636	Q90636 mus muscitu
79	173.5	13.8	257	13 Q90636	Q90636 mus muscitu
80	172	13.6	251	6 Q9MHV4	Q9MHV4 mus muscitu
81	172	13.6	233	6 Q9GME8	Q9GME8 mus muscitu
82	172	13.6	233	6 Q9MZ40	Q9MZ40 mus muscitu
83	171	13.6	226	6 Q9MZ39	Q9MZ39 mus muscitu
84	171	13.6	230	11 Q54871	Q54871 mus muscitu
85	170.5	13.5	381	6 Q8HY02	Q8HY02 mus muscitu
86	170.5	13.5	399	6 Q8HY12	Q8HY12 mus muscitu
87	170.5	13.5	399	6 Q8HY10	Q8HY10 mus muscitu
88	170.5	13.5	404	6 Q8HY01	Q8HY01 mus muscitu
89	170.5	13.5	422	6 Q8HY11	Q8HY11 mus muscitu

90 170.5 13.5 450 6 Q8HY03
 91 169.5 13.4 277 11 Q8K3H4
 92 168.5 13.4 181 4 Q9NZ81
 93 168.5 13.4 237 11 Q91ZW8
 94 168.5 13.4 332 11 Q8JZNI
 95 168.5 13.4 399 4 Q9H2Q9
 96 168 13.3 207 11 Q8VIR4
 97 167.5 13.3 238 11 Q91ZX1
 98 166.5 13.2 223 11 Q92SG5
 99 166.5 13.2 262 11 Q9JHV0
 100 166 13.2 233 6 Q9MYW6

ALIGNMENTS

RESULT 1
 Q9P126 PRELIMINARY; PRT; 229 AA.
 ID Q9P126
 AC Q9P126
 DT 01-OCT-2000 (TREMBlrel. 15, Created)
 DT 01-OCT-2000 (TREMBlrel. 15, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DS C-type lectin-like receptor-2.
 OS Homo sapiens (human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Liver;
 RX MEDLINE=20135876; PubMed=10671229;
 RA Coloma M., Samaridis J., Argman L.;
 RT "Molecular characterization of two novel C-type lectin-like receptors,
 one of which is selectively expressed in human dendritic cells.";
 RL Eur. J. Immunol. 30:697-704(2000).
 DR EMBL; AF124841; AAF36777.1; -
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; lectin_c/ 1.
 DR SMART; SM00034; CLECT_1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 DR Lectin; Receptor.
 KW SEQUENCE 229 AA; 26700 MW; 9134494FE514879D CRC64;
 SQ
 Query Match 97.9%; Score 1234; DB 4; Length 229;
 Best Local Similarity 98.7%; Pred. No. 2.6e-111;
 Matches 226; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 MODEDGYITLNTIKTRKPAIVSVGPASSFWMRVVALILILICVGMVGLVALGIWSVMQGN 60
 DB 1 MODEDGYITLNTIKTRKPAIVSVGPASSFWMRVVALILILILICVGMVGLVALGIWSVMQGN 60
 QY 61 YLDENENRTGTLQOLAKRFCCQVYVQKSEIKGTFKGHKSPCDTWRRYYGDSYGFRRN 120
 DB 61 YLDENENRTGTLQOLAKRFCCQVYVQKSEIKGTFKGHKSPCDTWRRYYGDSYGFRRN 120
 QY 121 LFWESKQYCTDMNATILKIDNRNIYEYIKARTHLIRWGLSRQSNENWKMEDGVSIVE 180
 DB 121 LFWESKQYCTDMNATILKIDNRNIYEYIKARTHLIRWGLSRQSNENWKMEDGVSIVE 180
 QY 181 NMFEELEDKGNMNCAYFNGKQHPFCENKXILNCERKAGMTKVDLP 229
 DB 181 NMFEELEDKGNMNCAYFNGKQHPFCENKXILNCERKAGMTKVDLP 229
 RESULT 2
 Q8NHR6 PRELIMINARY; PRT; 196 AA.
 ID Q8NHR6
 AC Q8NHR6
 DT 01-OCT-2002 (TREMBlrel. 22, Created)
 DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE Similar to C-type lectin-like receptor-2.

OS Homo sapiens (human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Testis;
 RA Strausberg R.;
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC029554; AA029554.1; -
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; lectin_c/ 1.
 DR SMART; SM00034; CLECT_1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 DR Lectin; Receptor.
 KW SEQUENCE 196 AA; 23140 MW; 4BA67F42727F31C CRC64;
 SQ
 Query Match 83.9%; Score 1057.5; DB 4; Length 196;
 Best Local Similarity 85.2%; Pred. No. 2.6e-94;
 Matches 195; Conservative 1; Mismatches 0; Indels 33; Gaps 1;
 QY 1 MODEDGYITLNTIKTRKPAIVSVGPASSFWMRVVALILILICVGMVGLVALGIWSVMQGN 60
 DB 1 MODEDGYITLNTIKTRKPAIVSVGPASSFWMRVVALILILILICVGMVGLVALGIWSVMQGN 60
 QY 61 YLDENENRTGTLQOLAKRFCCQVYVQKSEIKGTFKGHKSPCDTWRRYYGDSYGFRRN 120
 DB 61 YLDENENRTGTLQOLAKRFCCQVYVQKSEIKGTFKGHKSPCDTWRRYYGDSYGFRRN 120
 QY 121 LFWESKQYCTDMNATILKIDNRNIYEYIKARTHLIRWGLSRQSNENWKMEDGVSIVE 180
 DB 121 LFWESKQYCTDMNATILKIDNRNIYEYIKARTHLIRWGLSRQSNENWKMEDGVSIVE 180
 QY 181 NMFEELEDKGNMNCAYFNGKQHPFCENKXILNCERKAGMTKVDLP 229
 DB 181 NMFEELEDKGNMNCAYFNGKQHPFCENKXILNCERKAGMTKVDLP 229

RESULT 3
 Q9UL99 PRELIMINARY; PRT; 229 AA.
 ID Q9UL99
 AC Q9UL99
 DT 01-OCT-2000 (TREMBlrel. 15, Created)
 DT 01-OCT-2000 (TREMBlrel. 15, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DS C-type lectin-like receptor 2.
 GN CLC2.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Spleen, and Liver;
 RX MEDLINE=20135876; PubMed=10671229;
 RA Coloma M., Samaridis J., Argman L.;
 RT "Molecular characterization of two novel C-type lectin-like receptors,
 one of which is selectively expressed in human dendritic cells.";
 RL Eur. J. Immunol. 30:697-704(2000).
 DR EMBL; AF201457; AAF36831.1; -
 DR MGD; MG1:191387; CLC2.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; lectin_c/ 1.
 DR SMART; SM00034; CLECT_1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 DR Lectin; Receptor.
 KW SEQUENCE 229 AA; 26239 MW; 1BC9377F491CA52B CRC64;
 SQ
 Query Match 62.6%; Score 790; DB 11; Length 229;
 Best Local Similarity 63.9%; Pred. No. 2.3e-68;
 Matches 147; Conservative 31; Mismatches 48; Indels 4; Gaps 3;
 QY 1 MODEDGYITLNTIKTRKPAIVSVGPASSFWMRVVALILILICVGMVGLVALGIWSVMQGN 60


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Db 1 MODEDGYITINIKRKQALSSAPASS-WWRVVALVLLISSMGIIVGLVALGIMSTYQCK 59
QY 61 YLQDENENRGTLOQLAKRFQCYVVKOSEL--KQTFGKHKSPCDINWRYGSCYCFR 118
Db 60 YLAKENLNLATLOQLAKRFQCYVVKOSEL--KQTFGKHKSPCDINWRYGSCYCFR 118
QY 119 HNLWESKQCYCTDMNATLTKIDNRNIVEYIKATHLIRWGLSRQKSNVWVKWEDSVI 178
Db 119 HNLWESKQCYCTDMNATLTKIDNRNIVEYIKATHLIRWGLSRQKSNVWVKWEDSVI 178
QY 179 SENMFELEDDGKGNMCAVFNHNGKMHPTFCENKYYLMCCERKAGMTKVDOL 228
Db 179 RKNGINISGMTENMNCAYILNKGKIHAPASCERHYILCERKAGMTKVDOL 228

RESULT 4
Q8NC01 PRELIMINARY; PRT; 280 AA.
ID Q8NC01
AC Q8NC01
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Hypothetical protein FJ90633.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
CX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Placenta;
RA Issagi T., Oca T., Nishikawa T., Hayashi K., Otsuki T., Sugiyama T.,
RA Suzuki Y., Nagai K., Sugano S., Ishii S., Kawai-Hio Y., Saito K.,
RA Yamamoto J., Wakamatsu A., Nakamura Y., Kojima S., Nagatani K.,
RA Hattori A., Okumura K., Iwanaga T., Minomiyama K.,
RA Masuda Y., Oca T., Okano K., Yoshikawa Y., Aotsuka S., Sasaki N.,
RA "NEDO human cDNA sequencing project."
RT Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL: AK075114; BAC11410.1;
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_C.1.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
KW Hypothetical protein.
SQ SEQUENCE 280 AA; 31966 MW; 138237D347553ED5 CRC64;

Query Match 28.0%; Score 352.5; DB 4; Length 280;
Best Local Similarity 29.1%; Pred. No. 6.2e-26;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MODEDGYITINIKRKQALV-----SVGPASSFWWRVVALVLLIICVGMVGLVALGI 53
Db 11 MDDDDGTTMSLHSGQSAITTHPPRRTERHAPSSITRPVALTLLTCLVLLIGLALGL 70
QY 54 W-----SYMGRNY-----LQDENENRGTLOQLAKRFQCYVVKOSE 89
Db 71 LFFQYQLSNTGQDTISQMERLQNTSQELQVQVNIKLASGLQVHAEKLCR-----E 124
QY 90 LKGFQKHKSPPDITWRRYVGDSCYGFRRNLTWESKQCYCTDMNATLTKIDNRNIVEYI 149
Db 125 LYNKAGHRSPTCEQKMGHNDYCYQKSKWEDCKYFCLSENSITMLKINQEDIEFA 184
QY 150 KARTH-----LIRWGLSRQKSNVWVKWEDSVISENMFEBLED--GKGNMCAVFNHNGK 203
Db 185 ASQSYSEFFSYTGTGLRPSDGGKMLMMDGTPPTSLFHIITDTSRPSRDCVAILNGMI 244
QY 204 HPTFCENKHYLMCCERKAGMTKVDOL 228
Db 245 FSKDCKELKRCVCERRAGWKPESL 269

RESULT 5
Q8IUM7 PRELIMINARY; PRT; 280 AA.
ID Q8IUM7
AC Q8IUM7
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE C-type lectin-like receptor-1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
CX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Strausberg R.;
RA Submitted (NOV-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL: BC039072; AAF39072.1;
DR Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
KW Receptor; Lectin.
SQ SEQUENCE 280 AA; 31952 MW; 138235ED47553F4B CRC64;

Query Match 27.9%; Score 351.5; DB 4; Length 280;
Best Local Similarity 29.1%; Pred. No. 7.7e-26;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MODEDGYITINIKRKQALV-----SVGPASSFWWRVVALVLLIICVGMVGLVALGI 53
Db 11 MDDDDGTTMSLHSGQSAITTHPPRRTERHAPSSITRPVALTLLTCLVLLIGLALGL 70
QY 54 W-----SYMGRNY-----LQDENENRGTLOQLAKRFQCYVVKOSE 89
Db 71 LFFQYQLSNTGQDTISQMERLQNTSQELQVQVNIKLASGLQVHAEKLCR-----E 124
QY 90 LKGFQKHKSPPDITWRRYVGDSCYGFRRNLTWESKQCYCTDMNATLTKIDNRNIVEYI 149
Db 125 LYNKAGHRSPTCEQKMGHNDYCYQKSKWEDCKYFCLSENSITMLKINQEDIEFA 184
QY 150 KARTH-----LIRWGLSRQKSNVWVKWEDSVISENMFEBLED--GKGNMCAVFNHNGK 203
Db 185 ASQSYSEFFSYTGTGLRPSDGGKMLMMDGTPPTSLFHIITDTSRPSRDCVAILNGMI 244
QY 204 HPTFCENKHYLMCCERKAGMTKVDOL 228
Db 245 FSKDCKELKRCVCERRAGWKPESL 269

RESULT 6
Q8NZH3 PRELIMINARY; PRT; 280 AA.
ID Q8NZH3
AC Q8NZH3
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
DE C-type lectin-like receptor-1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
CX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC MEDLINE=20133876; PubMed=10671229;
RA Coloma M., Samaridis J., Angman L.;
RA "Molecular characterization of two novel C-type lectin-like receptors,
RT one of which is selectively expressed in human dendritic cells."
RT Ent. J. Immunol. 30:697-704(2000).
DR EMBL: AF200949; AAF36830.1;
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_C.1.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
KW Lectin; Receptor.
SQ SEQUENCE 280 AA; 32039 MW; 123C2C32F5F8F6F7 CRC64;

Query Match 27.5%; Score 346.5; DB 4; Length 280;
Best Local Similarity 28.7%; Pred. No. 2.4e-25;

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Matches 76; Conservative 53; Mismatches 93; Indels 43; Gaps 6;

QY 1 MODEDGYITLNIKTRKALV-----SVGPASSFWMRVVALILILICVGNVGLVALGI 53
 DB 11 MLDDDDGTWLSLHQAASATTRHPRPRTERHAPSTTRPALTLTLCLVLGLAAGL 70
 QY 54 W-----SVMOANV-----LQDENENTGTLOQAKRFQCVVAKSEL 89
 DB 71 LFFQYQLSNIGQDITLQEMERLQNSOELQSLQVQIKLAGSLQVHAEKLCR-----B 124
 QY 90 LKGTFFKHKCSPCDTNNRRYYGDSYCGFFRNLTWESKQYCTDMNATLLKIDNRNIVEYI 149
 DB 125 LYNKAGHRCSPCPEQKWKMGNDNCYQFYKDSKSWEDCKYFCLSENATLKINQDELEFA 184
 QY 150 KARTH---LIRWGLSRQKSNRWKWDGVSLENFLELD--GKNMCAVFNHNGM 203
 DB 185 ASOSYSEFFSYWYGLLRPDSGKAWMLMDGTPFISELFIHIIIDVTSRSDCVAILNGMI 244
 QY 204 HFFCFCKHYLMGCRKAGMTKVDL 228
 DB 245 FSKDCKELKRCVCERRRGMVKPESL 269

RESULT 7
 Q8BWY2 PRELIMINARY; PRT; 269 AA.
 AC O8BWY2
 DT 01-MAR-2003 (Tremblrel, 23, Created)
 DT 01-MAR-2003 (Tremblrel, 23, Last sequence update)
 DT 01-MAR-2003 (Tremblrel, 23, Last annotation update)
 DE Weakly similar to C-type lectin-like receptor-1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 NX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Spinal cord;
 RX MEDLINE=22354683; PubMed=12466851;
 RA The FANTOM Consortium,
 RA The RIKEN Genome Exploration Research Group Phase I & II Team;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs."
 RL Nature 420:563-573 (2002).
 DR EMBL: AK049608; BAC33840.1; -
 SQ SEQUENCE 269 AA; 30958 MW; DEC53DB093451ED0 CRC64;

Query Match 27.3%; Score 344.5; DB 11; Length 269;
 Best Local Similarity 31.9%; Pred. No. 3.5e-25;
 Matches 82; Conservative 42; Mismatches 90; Indels 43; Gaps 8;

QY 1 MODEDGYITLNIKTRK--PALVSVGPASSFWMRVVALILILICVGNVGLVALGI 54
 DB 12 LDDDDTTLISYGSTVTRRAEPRHSENGTPSSV-WRPVALTLTLCLVLGLAAGL 70
 QY 55 -----SVMOANV-----LQDENENTGTLOQAKRFQCVVAKSEL 90
 DB 71 FFFQYQLSNIGQDITLQEMERLQNSOELQSLQVQIKLAGSLQVHAEKLCR-----B 124
 QY 91 LKGTFFKHKCSPCDTNNRRYYGDSYCGFFRNLTWESKQYCTDMNATLLKIDNRNIVEYI 150
 DB 125 LYNKAGHRCSPCPEQKWKMGNDNCYQFYKDSKSWEDCKYFCLSENATLKINQDELEFA 184
 QY 151 ARTH---LIRWGLSRQKSNRWKWDGVSLENFLELDG--NANCAVFNHNGM 204
 DB 185 POSISEFFSYWYGLLRPDSGKAWMLMDGTPFISELFIHIIIDVTSRSDCVAILNGMI 244
 QY 205 PTFCKHXYLMCERKAG 221
 DB 245 SKDCKELKRCVCERRRGMVKPESL 261

RESULT 8

O8BWM5
 ID O8BWM5 PRELIMINARY; PRT; 269 AA.
 AC O8BWM5
 DT 01-MAR-2003 (Tremblrel, 23, Created)
 DT 01-MAR-2003 (Tremblrel, 23, Last sequence update)
 DT 01-MAR-2003 (Tremblrel, 23, Last annotation update)
 DE Weakly similar to C-type lectin-like receptor-1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 NX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Forelimb;
 RX MEDLINE=22354683; PubMed=12466851;
 RA The FANTOM Consortium,
 RA The RIKEN Genome Exploration Research Group Phase I & II Team;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs."
 RL Nature 420:563-573 (2002).
 DR EMBL: AK03112; BAC27264.1; -
 SQ SEQUENCE 269 AA; 30970 MW; AB0377834451BC0 CRC64;

Query Match 27.2%; Score 342.5; DB 11; Length 269;
 Best Local Similarity 31.5%; Pred. No. 5.5e-25;
 Matches 81; Conservative 43; Mismatches 90; Indels 43; Gaps 8;

QY 1 MODEDGYITLNIKTRK--PALVSVGPASSFWMRVVALILILICVGNVGLVALGI 54
 DB 12 LDDDDTTLISYGSTVTRRAEPRHSENGTPSSV-WRPVALTLTLCLVLGLAAGL 70
 QY 55 -----SVMOANV-----LQDENENTGTLOQAKRFQCVVAKSEL 90
 DB 71 FFFQYQLSNIGQDITLQEMERLQNSOELQSLQVQIKLAGSLQVHAEKLCR-----B 124
 QY 91 LKGTFFKHKCSPCDTNNRRYYGDSYCGFFRNLTWESKQYCTDMNATLLKIDNRNIVEYI 150
 DB 125 LYNKAGHRCSPCPEQKWKMGNDNCYQFYKDSKSWEDCKYFCLSENATLKINQDELEFA 184
 QY 151 ARTH---LIRWGLSRQKSNRWKWDGVSLENFLELDG--NANCAVFNHNGM 204
 DB 185 POSISEFFSYWYGLLRPDSGKAWMLMDGTPFISELFIHIIIDVTSRSDCVAILNGMI 244
 QY 205 PTFCKHXYLMCERKAG 221
 DB 245 SKDCKELKRCVCERRRGMVKPESL 261

RESULT 9
 Q9D403 PRELIMINARY; PRT; 275 AA.
 AC Q9D403
 DT 01-JUN-2001 (Tremblrel, 17, Created)
 DT 01-JUN-2001 (Tremblrel, 17, Last sequence update)
 DT 01-DRC-2001 (Tremblrel, 19, Last annotation update)
 DE 4933425B163k protein.
 GN 4933425B163k
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 NX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Testis;
 RX MEDLINE=21085660; PubMed=11217851;
 RA Kawal U., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Aizawa K., Izawa M., Fukunishi Y., Komoto H., Adachi J., Fukuda S.,
 RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
 RA Knehl P., Lewis S., Matsuo Y., Nikaide I., Pesole G., Quackenbush J.,
 RA Schirni L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,

RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
 RA Blake J., Boffelli D., Bojunga N., Carninci P., de Groot M.F.,
 RA Brownstein M.J., Bull C., Fletcher C., Fujita M., Gariboldi M.,
 RA Gustinich S., Hill D., Hofmann M., Hume D.A., Kantiya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Momberts P.,
 RA Nodone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Sasaki H., Sato K., Schoenbach C., Seta T., Shibata Y., Storch K.-P.,
 RA Suzuki H., Toyokawa K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
 RA Wyshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
 RA Hayashizaki Y.,
 RA "Functional annotation of a full-length mouse cDNA collection,"
 RT Nature 409:685-690 (2001).
 RL EMBL; AK016908; BAB30491.1; -
 DR HSSP; P23807; 11XX.
 DR MGD; MGI:1918433; 4933425B16R1K.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PSS0041; C_TYPE_LECTIN_2; 1.
 SQ SEQUENCE 275 AA; 31360 MW; C9792BA25CB5CC2 CRC64;

Query Match 25.4%; Score 320; DB 11; Length 275;
 Best Local Similarity 28.1%; Pred. No. 8.4e-23;
 Matches 80; Conservative 48; Mismatches 69; Indels 68; Gaps 9;

QY 1 MODEGYITLNK-----TRKPAVSGPSSPFWRVALLILICVGVWG 47
 Db 1 MSDEVATATMLQOSAVRGGRDNNIRKSG---HFAQSLMGALSLMTLCLVATG 56
 QY 48 LVALGISVWGRNYLQDENE-----NRGTLT----- 73
 Db 57 LVLTATWFLQVSDINSDEKLSQLOKSIHQDNLSESLSRKSLTESLSQISALL 1-6
 QY 74 ---QQLAKRRC-QYVAVQSELKGFKGKSPCCTNRRYDSCYGF-FRANLTWESKQ 128
 Db 117 ERQGVQVATKCKEFLHPSD-----HKCNPCPKTQWYGNSCYFSEINSEKWSDSRK 169
 QY 129 YCTDMATLTKIDN---RNIVETKARTHLIRWGLSRQSNLEWKEKDEDSVISENNF-- 183
 Db 170 DCIDKNATLVKIDSTERDLQSLSTSPFWGLSWNSSGRWMLWEDSGFPPTLLSD 229
 QY 184 EPLFDEGKNNCAVFNKGKMPFCENKHYLMCEKKAQMTKVDQ 228
 Db 230 KEASFNGSRECAVFERGNITYSRCRAEIPWICEKASLVKIDQ 274

RESULT 10

QY 09BXN2
 ID 09BXN2 PRELIMINARY; PRT; 247 AA.
 AC 09BXN2;
 DT 01-JUN-2001 (Tremblrel. 17, Created)
 DT 01-JUN-2001 (Tremblrel. 17, last sequence update)
 DT 01-OCT-2002 (Tremblrel. 22, last annotation update)
 DE Dendritic cell-associated C-type lectin-1 (DECTIN-1 receptor) (Lectin-
 DE like receptor 1) (beta-glucan receptor isoform A).
 GN DECTIN-1 OR DECTIN1 OR BGR.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OC NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21363425; PubMed=11470510;
 RA Yokota K., Takashima A., Bergstresser P.R., Allison K.,
 RT "Identification of a human homologue of the dendritic cell-associated
 RT C-type lectin-1, dectin-1,"
 RL Gene 272:51-60 (2001).
 RN [2]
 RP SEQUENCE FROM N.A.
 RP Sobanov Y., Benreiter A., Derdak S., Mechtcheriakova D., Duechler M.,
 RA Kaltschoff F., Hofer E.,
 RT "A novel cluster of lectin-like receptor genes expressed in monocytic,
 RT dendritic and endothelial cells maps close to the NK receptor genes in

RT the human NK gene complex,"
 RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21383615; PubMed=11491532;
 RA Hernandez-Palcos P., Arce I., Rodea-Navarro P., Fernandez-Ruiz E.,
 RT "Cloning of human DECTIN-1, a novel N-type lectin-like receptor gene
 RT expressed on dendritic cells,"
 RL Immunogenetics 53:288-295 (2001).
 RN [4]
 RP SEQUENCE FROM N.A.
 RA Hernandez-Palcos P., Arce I., Fernandez-Ruiz E.,
 RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.

QY 15 SEQUENCE FROM N.A.
 RC TISSUE=Peripheral blood leukocytes;
 RA Willment J.A., Gordon S., Brown G.D.,
 RT "Characterization of the human beta-glucan receptor and its
 RT alternatively spliced isoforms,"
 RL J. Biol. Chem. 0:0-0 (2001).
 DR EMBL; AF313468; AAK37473.1; -
 DR EMBL; AJ212373; CAC43847.1; -
 DR EMBL; AY026769; AAK20114.2; -
 DR EMBL; AF400595; AAL11711.1; -
 DR Genew; HGNC:14568; CLECSR12.
 DR InterPro; IPR02383; AntifreezeZell.
 DR InterPro; IPR01304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR PRINTS; PRO0356; ANTIFREEZEIT.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PSS0041; C_TYPE_LECTIN_2; 1.
 KV Lectin_Receptor.
 SQ SEQUENCE 247 AA; 27627 MW; 98393E3697611B9 CRC64;

Query Match 23.8%; Score 299.5; DB 4; Length 247;
 Best Local Similarity 31.0%; Pred. No. 7.1e-21;
 Matches 75; Conservative 40; Mismatches 100; Indels 27; Gaps 6;

QY 3 DEDGYITLNKIRKPAVSY-----GPASSFWRVALLILICVGVWGVLVALGISVM 57
 Db 11 DEDGYITLHFDQSNTRIAVSEKSGCAAPRLLAVILGILCVLIVAVLGLTAIW 70
 QY 58 QNR-----YLDENENRTGTLQQLAKRCQYVAVQSELKGFKGKSPCCTNWR 107
 Db 71 RSNVSGSNTLENGYFLSRNKNHNSQPTQSSIE--DVTPTKAVKTT--GVLSSPCPPMNI 125
 QY 108 YVGDSCYGFERNLTWESKQCYCTDMATLTKIDNHN---IYETKARTHLIRWGLSR 163
 Db 126 IYKSCYCLFMSLSNSWDGSRQCVQGLGSLNLTIDSSNELGFIYKQVSSQPDNSFMDLSR 185
 QY 164 QKSNBYWKWEDSGVISENMFEP--LEDGKNNCAVFNKGKMPFCENKHYLMCEKKA 220
 Db 186 PQTEVFWLWEDGSTFESNIFQITATQENPSPNCVMIHVSIVYDQICVSPYSICEKKE 245
 QY 221 GM 222
 Db 246 SM 247

RESULT 11

QY 08XILA
 ID 08XILA PRELIMINARY; PRT; 244 AA.
 AC 08XILA;
 DT 01-OCT-2002 (Tremblrel. 22, Created)
 DT 01-OCT-2002 (Tremblrel. 22, last sequence update)
 DT 01-XAR-2003 (Tremblrel. 23, last annotation update)
 DE Similar to C-type (Calcium dependent, carbohydrate recognition domain)
 DE lectin, superfamily member 12.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 OC NCBI_TaxID=10090;
 RN [1]

RP SEQUENCE FROM N.A.

RA Strauberg R.;
 RI Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC027742; AAH27742.1;
 DR InterPro; IPR002353; AntifreezeZell.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR PRINTS; PR00356; ANTIFREEZE1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS0041; C_TYPE_LECTIN_2; 1.
 SQ SEQUENCE 244 AA; 27542 MW; F50158025FA80C2A CRC64;

Query Match 23.1%; Score 291; DB 11; Length 244;
 Best Local Similarity 31.8%; Pred. No. 4.7e-20;
 Matches 76; Conservative 33; Mismatches 102; Indels 28; Gaps 8;

QY 3 DEDGYITLNIKT---RKPLVSVGP-ASSFWNRVVALILLICVGVVGLVALGIWSVM 57
 DB 11 DEDGYTQIDPSTQIDHKRPFGSEKSGRAPSSPMRPVAVGLICFVVVVAAVLGLAFW 70
 QY 58 QR-----NYLDENENRIGTLOQLAKRFQYVVKOSLKGTFKGKSGPDDTNWR 107
 DB 71 RHNSGNRPEEKDMPSPSNKNKHKPTSSIDEKVAAP--SKASQTTGSPS---QPCLPNMT 124
 QY 108 YVGDSCYGFPRNLTWESKQYCTDMNATLTKIDNRNIVEYIKART--HLIR-WYGLSR 163
 DB 125 MHKSCYLFSPGNSWYSGKRGCSQGLAHILKIDNSKEFFIESQTSNHIITAFWIGLSR 184
 QY 164 QKSNVWKWEDGVSISENMFPELEDGKNV--NCAYFNGKMHPTFCENKHYLMGCRK 215
 DB 185 NQSEGFWMFWDGSAFPFNSFOVNTAPQESLLHNCVWIHGSEVYNQICNTSSYSICEKE 243

RESULT 12

Q9JUI50 PRELIMINARY; PRT; 244 AA.

AC Q9JUI50;
 DT 01-OCT-2000 (TREMBlrel. 15, Created)
 DT 01-OCT-2000 (TREMBlrel. 15, Last sequence update)
 DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)
 DN Dendritic cell-associated C-type lectin-1.
 GN CLEC5F12 OR DECTIN-1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathii; Muridae; Murinae; Mus.
 CX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BALB/c;
 RX MEDLINE=20347934; PubMed=10779524;
 RA Aizumi K., Shen G.-L., Shikano S., Xu S., Riller R. III,
 RA Kumanoto T., Edlbaum D., Morita A., Bergtesser P.R., Takashima A.;
 RT "Identification of a novel, dendritic cell-associated molecule,
 RT dectin-1, by subtractive cDNA cloning."
 RL J. Biol. Chem. 275:20157-20167(2000).
 DR EMBL; AF262985; AAF72710.1;
 DR MGD; MGI:1861431; Clec5f12.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS0041; C_TYPE_LECTIN_2; 1.
 DR Lectin.
 SQ SEQUENCE 244 AA; 27621 MW; 55A71C04E68CA002 CRC64;

Query Match 22.6%; Score 288; DB 11; Length 244;
 Best Local Similarity 32.8%; Pred. No. 9.1e-20;
 Matches 78; Conservative 32; Mismatches 101; Indels 28; Gaps 9;

QY 3 DEDGYITLNIKT---RKPLVSVGP-ASSFWNRVVALILLICVGVVGLVALGIWSVM 57
 DB 11 DEDGYTQIDPSTQIDHKRPFGSEKSGRAPSSPMRPVAVGLICFVVVVAAVLGLAFW 70
 QY 58 QR-----NYLDENENRIGTLOQLAKRFQYVVKOSLKGTFKGKSGPDDTNWR 107

DB

71 RHNSGNRPEEKDMPSPSNKNKHKPTSSIDEKVAAP--SKASQTTGSP--SQSCLP--NMT 124

QY

108 YVGDSCYGFPRNLTWESKQYCTDMNATLTKIDNRNIVEYIKART--HLIR--WYGLSR 163
 125 MHKSCYLFSPGNSWYSGKRGCSQGLAHILKIDNSKEFFIESQTSNHIITAFWIGLSR 184

DB

164 QKSNVWKWEDGVSISENMFPELEDGKNV--NCAYFNGKMHPTFCENKHYLMGCRK 219
 185 NQSEGFWMFWDGSAFPFNSFOVNTAPQESLLHNCVWIHGSEVYNQICNTSSYSICEKE 243

RESULT 13

Q9EZR8 PRELIMINARY; PRT; 247 AA.

ID Q9EZR8;
 AC Q9EZR8;
 DT 01-MAR-2003 (TREMBlrel. 23, Created)
 DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DN Dendritic cell-associated C-type lectin-1.
 GN Macaca mulatta (Rhesus macaque).
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
 OC Cercopithecoidea; Macaca.
 CX NCBI_TaxID=9544;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Choi Y.K., Fallert B.A., Murphy-Corb M.A., Reinhart T.A.;
 RA "Simian Immunodeficiency Virus Dramatically Alters Expression of
 RT Homeostatic Chemokines and Dendritic Cell Markers During Infection In
 RT Vivo."
 RL Blood 0:0-0(2002).
 DR EMBL; AF508729; AAN47097.1;
 DR Lectin.
 SQ SEQUENCE 247 AA; 27648 MW; 9DF0D86DF2461518 CRC64;

Query Match 22.8%; Score 287.5; DB 6; Length 247;
 Best Local Similarity 30.1%; Pred. No. 1e-19;
 Matches 72; Conservative 44; Mismatches 102; Indels 21; Gaps 6;

QY 3 DEDGYITLNIKTREKPLVSV-----GPASSFWNRVVALILLICVGVVGLVALGIWSVM 57
 DB 11 DEDGYTQIDPSTQIDHKRPFGSEKSGRAPSSPMRPVAVGLICFVVVVAAVLGLAFW 70
 QY 58 Q-----RNYIQD---ENENRTGTLQQLAKRFQYVVKOSLKGTFKGKSGPDDTNWR 110
 DB 71 RHNSGNRPEEKDMPSPSNKNKHKPTSSIDEKVAAP--SKASQTTGSPS---QPCLPNMT 124
 QY 111 DSCYGFPRNLTWESKQYCTDMNATLTKIDNRN--IVEYIKARTHLIRWVGSRGSS 166
 DB 129 KCYLFSPGLNSWYSGKRGCSQGLAHILKIDNSKEFFIESQTSNHIITAFWIGLSR 188
 QY 167 NEVWKWEDGVSISENMFPELEDGKNV--NCAYFNGKMHPTFCENKHYLMGCRK 222
 DB 189 EYVPMWLFWDGSAFPFNSFOVNTAPQESLLHNCVWIHGSEVYNQICNTSSYSICEKE 247

RESULT 14

Q9H1K3 PRELIMINARY; PRT; 201 AA.

ID Q9H1K3;
 AC Q9H1K3;
 DT 01-MAR-2001 (TREMBlrel. 16, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)
 DN Putative transmembrane protein dectin-1 (dendritic cell-associated
 DN C-type lectin-1 beta) (DECTIN-1 receptor) (lectin-like receptor 1B)
 GN (Beta)-glucan receptor isoform 3).
 DE DECTIN-1 OR DECTIN1 OR BGR.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 CX NCBI_TaxID=9606;
 RN [1]

RP SEQUENCE FROM N.A.
 RA Grunbach F., Brugger W., Kanx L., Brossart P.;
 RT "Identification of the human dendritic-cell-associated molecule,
 hDectin-1, by cDNA subtraction and Rapid Amplification of cDNA Ends
 (RACE).";
 RL Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RA Yokota K., Takashima A., Bergstresser P.R., Arizumi K.;
 RT "Identification of a Human Homolog of the Dendritic Cell-associated C-
 type lectin-1, Dectn-1.";
 RL Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RP SEQUENCE FROM N.A.
 RA Soanov Y., Bernheiter A., Derdak S., Mechtcheriakova D., Diechler M.,
 RA Kalthoff F., Hofer E.;
 RT "A novel cluster of lectin-like receptor genes expressed in monocytic,
 RT dendritic and endothelial cells maps close to the NK receptor genes in
 RL the human NK gene complex.";
 RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
 RN [4]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21383615; PubMed=11491532;
 RA Hermanz-Falcon P., Arce I., Roda-Navarro P., Fernandez-Ruiz E.;
 RT "Cloning of human DCCTN-1, a novel C-type lectin-like receptor gene
 RT expressed on dendritic cells.";
 RL Immunogenetics 53:288-295(2001).
 RN [5]
 RP SEQUENCE FROM N.A.
 RA Hermanz-Falcon P., Arce I., Fernandez-Ruiz E.;
 RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
 RN [6]
 RP SEQUENCE FROM N.A.
 RC TISUB=Peripheral blood leukocytes;
 RA Willment J.A., Gordon S., Brown G.D.;
 RT "Characterization of the human beta-glucan receptor and its
 RT alternatively spliced isoforms.";
 RL J. Biol. Chem. 0:0-0(2001).
 RL EMBL: AY009090; AAG33923.2; -;
 DR EMBL: AF313469; AAK37474.1; -;
 DR EMBL: AJ312372; CAC43846.1; -;
 DR EMBL: AY026770; AAK20115.1; -;
 DR EMBL: AF400596; AAL11712.1; -;
 DR InterPro: IPR002353; AntifreezeZell.
 DR InterPro: IPR001304; Lectin_C.
 DR Pfam: PF00059; Lectin_C; 1.
 DR PRINTS: PR000356; ANTIFREEZE211.
 DR SMART: SMO0034; CLECT; 1.
 DR PROSITE: PSS0041; C_TYPE_LECTIN_2; 1.
 DR Lectin; Receptor; Transmembrane.
 SQ SEQUENCE 201 AA; 22563 MW; C6ADEE7623CE968 CRC64;

Query Match 22.2%; Score 279.5; DB 4; Length 201;
 Best Local Similarity 28.9%; Pred. No. 4,8e-19;
 Matches 67; Conservative 34; Mismatches 78; Indels 53; Gaps 4;
 QY 3 DEDGYTLTKRKRLVSV-----GPASSFWRWVALLILLCVGMVGVALGWSYM 57
 Db ||||| : : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
 11 DEDGYTLTKRKRLVSV-----GPASSFWRWVALLILLCVGMVGVALGWSYM 57
 QY 58 QANVYLDENENRTGTLQOLAKFCQYVVKOSLKGTFKHKSCFCDTMRVYVYSDSCYGF 117
 Db ||||| : : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
 71 S-----SPCPNWIYERKCYFS 89
 QY 118 RHNLTWESKQYCTDMNATILKIDNRN-----IVEYIKARHLIRVGVSRQKSNVWVWKE 173
 Db ||||| : : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
 90 MSINWDSKQYCTDMNATILKIDNRN-----IVEYIKARHLIRVGVSRQKSNVWVWKE 173
 QY 174 DGSVSENMFEF---LEDGKGNMCAVFNHGMPTFCENKHYLMCEKAKG 222
 Db ||||| : : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
 150 DGSVSENMFEF---LEDGKGNMCAVFNHGMPTFCENKHYLMCEKAKG 222
 Db ||||| : : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
 150 DGSVSENMFEF---LEDGKGNMCAVFNHGMPTFCENKHYLMCEKAKG 222

RESULT 15
 Q9XTA8 PRELIMINARY; PR: 278 AA.
 ID Q9XTA8
 AC Q9XTA8;
 DT 01-NOV-1999 (TREMBLrel. 12, Created)
 DT 01-NOV-1999 (TREMBLrel. 12, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 12, Last annotation update)
 DE Lectin-like oxidized LDL receptor.
 GN LOX-1.
 OS Oryctolagus cuniculus (Rabbit).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
 OX NCBI_TaxID=9986;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Sawamura T., Chen T.;
 RT "Rabbit lectin-like oxidized LDL receptor 1.";
 RL Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AB016237; BAB1912.1; -;
 DR InterPro: IPR001304; Lectin_C.
 DR Pfam: PF00059; Lectin_C; 1.
 DR SMART: SMO0034; CLECT; 1.
 DR PROSITE: PSS0041; C_TYPE_LECTIN_2; 1.
 DR Receptor.
 SQ SEQUENCE 278 AA; 31646 MW; 25A5E310F823A09B CRC64;

Query Match 21.1%; Score 266.5; DB 6; Length 278;
 Best Local Similarity 26.4%; Pred. No. 1.3e-17;
 Matches 65; Conservative 43; Mismatches 87; Indels 51; Gaps 5;
 QY 26 SFFWVWVALLILLCVGMVGVALGWSYMGRNVLQDENENRT-----GTAKHKSCPDT 104
 Db ||||| : : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
 35 SFFWVWVALLILLCVGMVGVALGWSYMGRNVLQDENENRT-----GTAKHKSCPDT 104
 QY 71 -----GTQOLAKRQCQYVVKOSLKGTFKHKSCFCDTMRVYVYSDSCYGF 170
 Db ||||| : : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
 95 AEAASQESQBELKEMETITAKRIDSKSKQMEINHOYINLQELKMDNFSG---PCPE 150
 QY 105 NMRVYDSCYGFERNLTWESKQYCTDMNATILKIDNRNIVYVART---HLIRVGV 161
 Db ||||| : : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
 151 DWMHGNKCYLFPSSGFWNWSQEKLSLDAQLKINSBEDLFCIQATSHSFPFWWGL 210
 QY 162 SROKSNVWVWVALLILLCVGMVGVALGWSYMGRNVLQDENENRT-----GTAKHKSCPDT 218
 Db ||||| : : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
 211 SRRKPDYSLWEDGSLPMLERFQGNVSRYPSTCAVYQGNVFAENCILVAVSIQK 270
 QY 219 KAGMTK 224
 Db ||||| : : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
 271 KANLJR 276
 RESULT 16
 Q9XTA8 PRELIMINARY; PR: 265 AA.
 ID Q9XTA8
 AC Q9XTA8;
 DT 01-JUN-2002 (TREMBLrel. 21, Created)
 DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
 DT 01-OCT-2002 (TREMBLrel. 22, Last annotation update)
 DE C-type lectin protein CL-1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Zhang W., Wan T., Chen T., Gao X.;
 RT "Novel human C-type lectin superfamily member CL-1.";
 RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AF247788; AAB5693.1; -;
 DR InterPro: IPR001304; Lectin_C.
 DR Pfam: PF00059; Lectin_C; 1.
 DR SMART: SMO0034; CLECT; 1.
 DR PROSITE: PSS0041; C_TYPE_LECTIN_2; 1.

KW Lectin.
SQ SEQUENCE 265 AA; 30761 MW; 4255F1EA9300ED1 CRC64;
Query Match 21.0%; Score 265; DB 4; Length 265;
Best Local Similarity 28.3%; Pred. No. 1.7e-17;
Matches 73; Conservative 39; Mismatches 102; Indels 44; Gaps 6;
QY 1 MODEGDTITNKI-----RKDALVSG-----PASFWRWVALILLICGVAVGVVAL 51
DB 1 MSEEVTADLPQFNSSEMEKIPEIGKFGKAPAPASHWRPALLFLLICLLILIGLVL 60
QY 52 -----GIWSVQRY-----LODENRIGTLOGLAKRPGQY 83
DB 61 ASMEVTLIKIMKKKKKQNISEELQRIISLQIMSNNTSKIRYLSTLTQITACKCR- 119
QY 84 VKQSELKGTFGKHKSCPDITNWRYYGSCYGFPHNLTWEECKQYCTDNATLTKIDNR 143
DB 120 -----ELYSKEQEHKCKPCPRRWIWKDCYFLSDVQTWGSKACAAQVASILKIKNNK 174
QY 144 NIVEYIKARHLI-RWGLSKQKSNVWKMDGYSISNMFEFLDGKNNKCYFHNCK 202
DB 175 NALERISQSRSYDYWLGSLSPEDSTRGMRVDNTINSSAWYIRNAPDINNVCYINRLY 234
QY 203 MHPTECKAYLNCERKA 220
DB 235 VQYHCTYKQEMICRMA 252
RESULT 17
QYTK7
ID Q9TKT7 PRELIMINARY; PRT; 274 AA.
AC Q9TKT7;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Lectin-like oxidized LDL receptor-1.
GN PLOX-1.
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suidae; Suis.
OX NCBI_TaxID=9623;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21181560; PubMed=11284714;
RA Chen M., Narumiya S., Masaki T., Sawamura T.,
RT "Conserved C-terminal residues within the lectin-like domain of LOX-1
are essential for oxidized low-density lipoprotein binding.";
RL Biochem. J. 355:289-296 (2001).
DR EMBL; AB018668; BAA89894.1; -;
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin C; 1.
DR SMART; SM00034; CLECT_1.
DR PROSITE; PSS0041; C_TYPE_LLECTIN_2; 1.
KW Receptor.
SQ SEQUENCE 274 AA; 31142 MW; D14776C79FB42E0 CRC64;
Query Match 20.2%; Score 254.5; DB 6; Length 274;
Best Local Similarity 26.2%; Pred. No. 1.5e-15;
Matches 66; Conservative 50; Mismatches 81; Indels 55; Gaps 8;
QY 23 GP--ASSFWRWVALILLICGVAVGVVALGI-----WS 55
DB 26 GPRSLSTLRWRPALIRIGLCTGLVIVLILLIQSGVSLKQKYLTHQDILHGQA 85
QY 56 VMGRNYIGDENNR---TGLIQLAKFCQYVVKSLK-----GTFKHKC 99
DB 86 LAQRQKSKSQSQRREITETIETIAHLDRSKKMLWQQQNLNLQALKEKAFSG--- 142
QY 100 SPQDTNWRYYGSCYGFPHNLTWEECKQYCTDNATLTKIDNRNIVEYIK---ASTHLI 156
DB 143 -PCPQWLMHHEHCYFSSGPFMEKSRKENCSLDAQLKINTDIEFLIQDTIASSSP 201
QY 157 RWGLSKQKSNVWKMDGYSISNMFEFLDGKNNK---NCAYFHNGKHPTECKRKA 212

DB 202 FWMGLSIRKFNNSWLMWEDGPIWMLHPR-LQGAASQWPSGTQAYIHRGIVFANCLINA 260
QY 213 YLMERKAGMTK 224
DB 261 PSICQKRNLLR 272
RESULT 18
P78380
ID P78380 PRELIMINARY; PRT; 273 AA.
AC P78380;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Lectin-like oxidized LDL receptor (Oxidised low density lipoprotein
lectin-like receptor 1).
GN LOX-1 OR OLR1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX TISSUE=Lung;
RX MEDLINE=97205278; PubMed=9052782;
RA Sawamura T., Kure N., Aoyama T., Moriaki H., Hoshikawa H., Alba Y.,
RA Tanaka T., Miwa S., Katsura Y., Kita T., Masaki T.,
RT "An endothelial receptor for oxidized low-density lipoprotein.";
RL Nature 386:73-77 (1997).
RN [2]
RP SEQUENCE FROM N.A.
RX TISSUE=Blood;
RA Miller D.S.;
RL Submitted (FEB-1999) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RA Li X., Bouzyk M.M., Wang X.K.;
RT "Human oxidized low density lipoprotein receptor: characterization of
the full length cDNA sequence and assignment to human chromosome
12p13.1-12.3";
RL Submitted (NOV-1997) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=99047525; PubMed=9828121;
RA Yamanaka S., Zhang X.Y., Miura K., Kim S., Iwao H.;
RT "The human gene encoding the lectin-type oxidized LDL receptor (OLR1)
is a novel member of the natural killer gene complex with a unique
expression profile.";
RL Genomics 54:191-199 (1998).
RN [5]
RP SEQUENCE FROM N.A.
RX Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
RL EMBL; AB010710; BAA24580.1; -;
DR EMBL; AJ131757; CAB38475.1; -;
DR EMBL; AF035776; AAC82329.1; -;
DR EMBL; AF079167; AAC97927.1; -;
DR EMBL; AF079165; AAC97927.1; JOINED.
DR EMBL; AF079164; AAC97927.1; JOINED.
DR EMBL; BC022293; AAH22295.1; -;
DR Genew; HGNC:8133; OLR1.
DR InterPro; IPR002353; Antifreeze-1.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR00356; ANTI-FREEZE1.
DR SMART; SM00034; CLECT_1.
DR PROSITE; PSS0041; C_TYPE_LLECTIN_2; 1.
KW Lectin; Lipoprotein; Receptor.
SQ SEQUENCE 273 AA; 30959 MW; 852DDE6595DC3D361 CRC64;

Query Match 19.8%; Score 249.5; DB 4; Length 273;
 Best Local Similarity 25.7%; Pred. No. 5.5e-16;
 Matches 62; Conservative 50; Mismatches 78; Indels 51; Gaps 7;

QY 23 WRRVALLILLCVGVVGLVALGIMSVQGRNYLDENERT
 DB 34 WGLLAATIGVGLGVVITVIMGLQSGVSDLTQEQANTLTHQKKLEGQISARQAAE 70
 QY 71 -----GTLLQOLAKRFCCQVVKSE-----LKTFPG-HKCS-PCDTMRYGD 111
 DB 94 ASQSENELKEMIEITLARTLNKSKQEMLHONLNLOETLKVANCSAPCPQDMWHE 153
 QY 112 SCYGFRRNLTWESKQYCTDMATLKIDNENIVEYK---ARTHLIRWVQ-SRQKSNH 168
 DB 154 NCYLFSGSGFVWEKQKCLSIDAKLTKINSTADDFIQOATISGSPFFWGLSERNYSY 213
 QY 169 VVKMEDGVSINEMREFLEDGKNN-----CAFYNGKKEHPTFCNKHYLMGERYAG 221
 DB 214 FVWMDGSPILFPHLRV-----KGAVSQYPSGTCAYIGRGAVENTLIAAFSICQKXAN 269
 QY 222 M 222
 DB 270 L 270

RESULT 19

P79391 PRELIMINARY; PRT; 270 AA.
 ID P79391;
 AC P79391;
 DT 01-MAY-1997 (TREMBlrel. 03, Created)
 DT 01-MAY-1997 (TREMBlrel. 03, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE Lectin-like oxidized LDL receptor.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Bovinae; Bos.
 CX NCBI_TaxID=9913;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=97205278; PubMed=9052782;
 RA Sawamura T., Kume N., Aoyama T., Moriaki H., Hoshikawa H., Alba Y.,
 RA Tanaka T., Miwa S., Katsura Y., Kita T., Masaki T.,
 RT "An endothelial receptor for oxidized low-density lipoprotein.";
 RL Nature 386:73-77(1997).
 DR EMBL; D89049; BAA19003.1; -
 DR InterPro; IPR003353; AntiFreezeit.
 DR InterPro; IPR003304; Lectin_C.
 DR Pfam; PF00059; lectin_C_1_
 DR PRINTS; PR00356; ANTIFREEZEIT.
 DR SMART; SM00034; CLECT_1.
 DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
 KW Receptor.
 SQ SEQUENCE 270 AA; 30892 MW; 6055B6881AD7053D CRC64;

Query Match 19.2%; Score 242.5; DB 6; Length 270;
 Best Local Similarity 25.2%; Pred. No. 2.6e-15;
 Matches 66; Conservative 54; Mismatches 83; Indels 59; Gaps 9;

QY 11 NIKTRPAIVSVPPASSFWRRVALLILLCVGVVGLVALGIMSVQGRNYLDENERT 70
 DB 18 NGKTLAK-----GFVSMRWYPAVITVGLVCLSLVTVITL-----ILQSSVSDLIKQ 67
 QY 71 GTL-----QOLAKRFCCQVVKOS--ELKSTFK--GHR----- 98
 DB 68 ANITHQEDILEGQILQSRSEKSAQSQKELKEMITLAKDKDEKSKIMELHRCVLIHQ 127
 QY 99 -----CSPEDTWRVYGDSCYCFRRNLTWESKQYCTDMATLKIDNENIVEY 149
 DB 128 EVTKRANYSGPCPQDMWHEENCYQFSSGSPFWKESQNCISLDAILKINSTDELPT 187
 QY 150 K---ARTHLIRWVGLSRQKSNEMVWKMEDGVSINEMREFLEDGKNN-----NCAVYHNK 202

DB 168 QOMIAHSPFPWGLSKRKNYSIMWEDCTLPLPFR-IGQAVSRWYPSGTCAYIGRGT 246
 QY 203 WHPTFCNKHYLMGERKAGMTK 224
 DB 247 VFAENCILTAFSICQKXANLRL 268

RESULT 20

Q8BN96 PRELIMINARY; PRT; 267 AA.
 ID Q8BN96;
 AC Q8BN96;
 DT 01-MAR-2003 (TREMBlrel. 23, Created)
 DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE Hypothetical C-type lectin domain containing protein.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 CX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Eye;
 RX MEDLINE=22354683; PubMed=12466851;
 RA The FANTOM Consortium,
 RA The RIKEN Genome Exploration Research Group Phase I & II Team;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs.";
 RL Nature 420:563-573(2002).
 DR EMBL; AK084335; BAC39163.1; -
 KW Hypothetical protein.
 SQ SEQUENCE 267 AA; 30697 MW; DC57E7268941B9F7 CRC64;

Query Match 18.6%; Score 234.5; DB 11; Length 267;
 Best Local Similarity 26.4%; Pred. No. 1.5e-14;
 Matches 60; Conservative 40; Mismatches 82; Indels 45; Gaps 6;

QY 35 LILILLCVGVVGLVALG-----IMSVQGRNYLQ-----DEN----- 66
 DB 44 LILILLCVGLFIDMGVYIGGIFYYTLATENIKSNQOLQAKBELQENVALQKHNLSKKI 103
 QY 67 ENRTGTLQOLAKRFCCQVVKSELKGFRRKHKSPCDTMRYGDSYGFRRNLTWES 126
 DB 104 KNLSAMIGSTRNOLCR-----LVSKEPDKKCPKPGKSEWKDSCYGLNQTQES 157
 QY 127 KQYCTDMATLKIDNENIVEYKARTHLIRWVGLSRQKSNEMVWKMEDGVSINEM 183
 DB 158 VVACSARNASLILKVKKKVDVLEFVKYKKLRVFWLALPRKDRGTYP-----LSKMTLSE 211
 QY 184 --ELEDGKNNMCAVFNHKKHPTFCNKHYLMGERKAGMTKVDOL 228
 DB 212 ESRSTDDIDDKYCGTIDRVNVYVYCTDENNICSETASKVQLSEV 258

RESULT 21

Q8BRU4 PRELIMINARY; PRT; 238 AA.
 ID Q8BRU4;
 AC Q8BRU4;
 DT 01-MAR-2003 (TREMBlrel. 23, Created)
 DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE Hypothetical C-type lectin domain containing protein.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 CX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Aorta and vein;
 RX MEDLINE=22354683; PubMed=12466851;
 RA The FANTOM Consortium,
 RA The RIKEN Genome Exploration Research Group Phase I & II Team;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs.";

RL Nature 420:563-573(2002).
 DR EMBL; AK041288; BAC30890.1; -
 KW Hypothetical protein.
 SQ SEQUENCE 238 AA; 27014 MW; 07368A0308B95E81 CRC64;

Query Match 18.3%; Score 233.5; DB 11; Length 238;
 Best Local Similarity 26.2%; Pred. No. 1.7e-14;
 Matches 62; Conservative 44; Mismatches 110; Indels 21; Gaps 5;

QY 1 MODEDGYITL--NKTTRKPAIVSVGPAS-SFWWVMAILLILICVGVVGLVALGWSV 57
 DB 1 MEAEIYTSLOWDIPTEASQKQSPKSGAMCVVMISCVMGGLATISIFGIKFPQ 60
 QY 58 QRYALQDENE-----NRCTLOAKRFQCYVVKSEKGTGKHKSGPCDTNWR 107
 DB 61 VSSVLVEQOEELLQODTALVNTQWRKTYLTCQALQKS---LHSGSDSPCPNWT 116
 QY 108 YYGDSYGFPPHNLTWESKQYCTDNATLLKTDNENIVYI---KARTHLRWGLSLR 163
 DB 117 QNGKSCYYVFERWEMWNISKSCIKEGASLFQIDSKEMETISIGLKQGNKYVGVFPQ 176
 QY 164 QKSNWKKWEDGSVISNMFEPLEDGKNNCAVFNNGKXHPYCEMKHYLMCEKRA 220
 DB 177 DGISGFWWEDGSSPSDLIPAEQRQSAQIGYLDKDTLISDKCDSWKXFIKCKRA 233

RESULT 22
 Q8B231 PRELIMINARY; PRT; 206 AA.
 AC Q8B231;
 DT 01-MAR-2003 (Tremblrel. 23, Created)
 DT 01-MAR-2003 (Tremblrel. 23, Last sequence update)
 DE 01-MAR-2003 (Tremblrel. 23, Last annotation update)
 DB Weakly similar to C-type lectin-like receptor-1.
 OS Mus musculus (Mouse)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Vagina;
 RX MEDLINE=22354683; PubMed=12466851;
 RA The FANTOM Consortium.
 RA the RIKEN Genome Exploration Research Group Phase I & II Team;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 60,770 full-length cDNAs."
 RL Nature 420:563-573(2002).
 DR EMBL; AK036846; BAC29605.1; -
 SQ SEQUENCE 206 AA; 23161 MW; 44900DB72DB7845A CRC64;

Query Match 18.4%; Score 232.5; DB 11; Length 206;
 Best Local Similarity 32.9%; Pred. No. 1.7e-14;
 Matches 57; Conservative 26; Mismatches 51; Indels 37; Gaps 6;

QY 1 MODEDGYITL--NKTTRK--PAIVSVGPASSFWWVMAILLILICVGVVGLVALGTM 54
 DB 12 LDDDDTTLSLYGTSVTRRARRRSENGTSSV--WRPALTLITLCLVLAVALGLV 70
 QY 55 -----SVQGN-----YIODEENRTGLTQCLARKFQCYVVKQSL 90
 DB 71 FQFVYLSNIQDSTREKDEKGNNSRQOSIQDQRKRIETLQVAVVLCR-----EL 124
 QY 91 KGTFGKHKSCPCDTNWRYYGDSYGFPPHNLTWESKQYCTDNATLLKTDNR 143
 DB 125 YNKGSGHGSGCPREKWKWYGDCKYCYKESKXWQSGEYCLADNATMLKISIQ 177

RESULT 23
 Q8B2A7 PRELIMINARY; PRT; 168 AA.
 AC Q8B2A7;
 DT 01-DEC-2001 (Tremblrel. 19, Created)
 DT 01-DEC-2001 (Tremblrel. 19, Last sequence update)

DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
 D3 beta-glucan receptor isoform E.
 GN BGR.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Willment J.A., Gordon S., Brown G.D.;
 RT "Characterization of the human beta-glucan receptor and its
 RT alternatively spliced isoforms."
 RL J.Biol.Chem. 0:0-0(2001).
 DR EMBL; AF400599; AAL11715.1; -
 DR InterPro; IPR002353; AntiFreeze11.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C_1.
 DR PRINTS; PR00356; ANTI-FREEZE11.
 DR SMART; SM00034; CLECT_1.
 DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
 KW Receptor.
 SQ SEQUENCE 168 AA; 19217 MW; AFD3A8F892BFC6 CRC64;

Query Match 18.3%; Score 230.5; DB 4; Length 168;
 Best Local Similarity 34.8%; Pred. No. 2.1e-14;
 Matches 47; Conservative 21; Mismatches 60; Indels 7; Gaps 2;

QY 95 KKHKSPCDTNWRYYGDSYGFPPHNLTWESKQYCTDNATLLKTDNEN---IYEYK 150
 DB 34 KVLSSPCPPPNWITREKSCYLFMSLSNWDGSKRQCWQGLGSLKIDSNEIGFIKQVS 93
 QY 151 ARTHLIRWGLSRQSNENWKKEDGSVISNMFEP--LEDKGNMNCAYFPNGKXHPTE 207
 DB 94 SQPDNSFWIGLSRPPTEVPWLMEDGSTSSNLFQRTTATQENPSPNCWIVHSVYDQL 153
 QY 208 CENKHYLMCEKRA 222
 DB 154 CVPSPSICEKKEFSM 168

RESULT 24
 Q8CB24 PRELIMINARY; PRT; 293 AA.
 AC Q8CB24;
 DT 01-MAR-2003 (Tremblrel. 23, Created)
 DT 01-MAR-2003 (Tremblrel. 23, Last sequence update)
 DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
 DE Hypothetical C-type lectin domain containing protein.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Bone;
 RX MEDLINE=22354683; PubMed=12466851;
 RA The FANTOM Consortium.
 RA the RIKEN Genome Exploration Research Group Phase I & II Team;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 60,770 full-length cDNAs."
 RL Nature 420:563-573(2002).
 DR EMBL; AK036399; BAC29411.1; -
 KW Hypothetical protein.
 SQ SEQUENCE 293 AA; 33254 MW; 96AB3EF1AB57DD CRC64;

Query Match 18.0%; Score 227.5; DB 11; Length 293;
 Best Local Similarity 24.7%; Pred. No. 8.1e-14;
 Matches 64; Conservative 44; Mismatches 112; Indels 39; Gaps 5;

QY 1 MODEDGYITL--NKTTRKPAIVSVGPAS-SFWWVMAILLILICVGVVGLVALGWSV 57
 DB 1 MEAEIYTSLOWDIPTEASQKQSPKSGAMCVVMISCVMGGLATISIFGIKFPQ 60


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QY 58 Q8MUTL-----NRTGLQOLANFCQYVVKQSELKGT----- 93
DB 61 VSSLVLEQOEHLIQQDIALVMTQWQRYLEYQCALQRLSHGSDTASTPVLITSPQM 120
QY 94 -----FKGHKSPCDTMMRYGDSQCYGFRRNLTWESKQCYCTDNATLKIKNRI 145
DB 121 VPQLDSEFSTSDSCPHNWIQNGKSCYVFERSEWENWISKSKCEKASLFGIDSKBE 160
QY 146 VEYI-----KARTHLIRWGLSRQKSNFYKWEQDSVISENMFELDEGKGNMCAYPHNG 201
DB 181 MEPISSIGKLGKGNKYWGVQZDGISSGFWEDGSSPLSDLPABRQRSAGQICGYLKDS 240
QY 202 KHAFTPCENKAYLMCEKKA 220
DB 241 TLISDKDSDWXYFCEKKA 259

RESULT 25
Q8MUTL
ID Q8MUTL PRELIMINARY; PRT; 216 AA.
AC Q8MUTL;
DT 01-OCT-2002 (TREMBlrel. 22, Created)
DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE Natural killer cell lectin-like receptor.
GN POPY-NKG2D.
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pongo.
OC NCBI_Taxid=9600;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22072192; PubMed=12077248;
RA Gueltheln L.A., Flodin L.R., Adams E.U., Parham P.;
RT "NK Cell Receptors of the Orangutan (Pongo pygmaeus): A Pivotal
RT Species for Tracking the Coevolution of Killer Cell Ig-Like Receptors
RT with MHC-C";
RL J. Immunol. 169:220-229(2002).
DR EMBL; AF470403; AAM78503.1; -.
DR InterPro; IPR002353; Antifreeze-I.
DR Pfam; PF00059; lectin_C; 1.
DR PRINTS; PR00356; ANTI-FREZEZ-I.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Receptor; Lectin.
SQ SEQUENCE 216 AA; 25211 MW; 9224BF44924903FF CRC64;

Query Match 17.6%; Score 222; DB 6; Length 216;
Best Local Similarity 29.3%; Pred. No. 1.9e-13;
Matches 56; Conservative 37; Mismatches 60; Indels 38; Gaps 9;

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QY 38 LILC--VGMWVG--LVALGWSVMQRYLQDENENRTGLQOLAKRFGQYVVKQSELKG 92
DB 53 LFCCCFIATMGIRITVMTISAVFLNSL-----FNQBV--QPLTG 93
QY 93 TRKGKXCFDCTMMRYGDSQCYGFRRNLTWESKQCYCTDNATLKI--DNRNIVEYI 149
DB 94 SY-----CGPCPKMWICYKNKCYQFNESKNWYESQASCMQSQASLTKYKSEDDQLIKLV 149
QY 150 KARTHLIRWGLSRQKSNFYKWEQDSVISENMFELDEGKGNMCA--YFNGKHAFTPC 208
DB 150 KS---YHMGILHPTNGSQWQEDGSIISPLIITIMQKG--DCALYASSFKGIENC 203
QY 209 ENKHYLMCEK 219
DB 204 STPNYTIQMR 214

RESULT 26
Q8MUTL
ID Q8MUTL PRELIMINARY; PRT; 216 AA.
AC Q8MUTL;

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DT 01-OCT-2002 (TREMBlrel. 22, Created)
DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE Natural killer cell lectin-like receptor.
GN POPY-NKG2D.
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pongo.
OC NCBI_Taxid=9600;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22072192; PubMed=12077248;
RA Gueltheln L.A., Flodin L.R., Adams E.U., Parham P.;
RT "NK Cell Receptors of the Orangutan (Pongo pygmaeus): A Pivotal
RT Species for Tracking the Coevolution of Killer Cell Ig-Like Receptors
RT with MHC-C";
RL J. Immunol. 169:220-229(2002).
DR EMBL; AF470404; AAM78504.1; -.
DR InterPro; IPR002353; Antifreeze-I.
DR Pfam; PF00059; lectin_C; 1.
DR PRINTS; PR00356; ANTI-FREZEZ-I.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Receptor; Lectin.
SQ SEQUENCE 216 AA; 25225 MW; 92E757724B836210 CRC64;

Query Match 17.6%; Score 222; DB 6; Length 216;
Best Local Similarity 29.3%; Pred. No. 1.9e-13;
Matches 56; Conservative 37; Mismatches 60; Indels 38; Gaps 9;

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QY 38 LILC--VGMWVG--LVALGWSVMQRYLQDENENRTGLQOLAKRFGQYVVKQSELKG 92
DB 53 LFCCCFIATMGIRITVMTISAVFLNSL-----FNQBV--QPLTG 93
QY 93 TRKGKXCFDCTMMRYGDSQCYGFRRNLTWESKQCYCTDNATLKI--DNRNIVEYI 149
DB 94 SY-----CGPCPKMWICYKNKCYQFNESKNWYESQASCMQSQASLTKYKSEDDQLIKLV 149
QY 150 KARTHLIRWGLSRQKSNFYKWEQDSVISENMFELDEGKGNMCA--YFNGKHAFTPC 208
DB 150 KS---YHMGILHPTNGSQWQEDGSIISPLIITIMQKG--DCALYASSFKGIENC 203
QY 209 ENKHYLMCEK 219
DB 204 STPNYTIQMR 214

RESULT 27
Q8MUTL
ID Q8MUTL PRELIMINARY; PRT; 232 AA.
AC Q8MUTL;
DT 01-JUN-1998 (TREMBlrel. 06, Created)
DT 01-MAY-1999 (TREMBlrel. 10, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE NKG2-D protein.
GN NKG2D OR D6H12S2489E.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OC NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=C57BL/6;
RX MEDLINE=98263354; PubMed=9600963;
RA Ho E.L., Heusel J.W., Brown W.G., Matsuoto K., Scalzo A.A.,
RA Yokoyama W.M.;
RT "Murine Nkg2d and Cd94 are clustered within the natural killer complex
RT and are expressed independently in natural killer cells.";
RL Proc. Natl. Acad. Sci. U.S.A. 95:6320-6325(1998).
RN [2]
RP SEQUENCE OF 14-232 FROM N.A.
RC STRAIN=C57BL/6;

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RX MEDLINE=98124458; PubMed=9464811;
 RA Vance R.E., Tanemachi D.M., Hanke T., Raulat D.H.;
 RT "Cloning of a mouse homolog of CD94 extends the family of C-type
 RT lectins on murine natural killer cells.";
 RL Eur. J. Immunol. 27:3236-3241(1997).
 RN [13]
 RC SEQUENCE FROM N.A.
 RP STRAIN=C57BL/6J; TISSUE=Spleen;
 RA Butcher S., Cottage A., Cook G.P.;
 RT "Mouse natural killer cell receptors homologous to human CD94 and
 RT NKG2-D.";
 RL Submitted (DEC-1997) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF054819; AAC24356.1; -;
 DR EMBL; AF030313; AAC28245.1; -;
 DR EMBL; AF039026; AAD02117.1; -;
 DR MGD; MGI:1196250; D6H2S2489E.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT_1.
 DR PROSITE; PSS0041; C_TYPE_LECTIN_2; 1.
 KW Receptor.
 SQ SEQUENCE 232 AA; 26709 MW; 050536E8C3088A CRC64;

Query Match 17.2%; Score 217; DB 11; Length 232;
 Best Local Similarity 32.9%; Pred. No. 6,3e-13;
 Matches 51; Conservative 31; Mismatches 61; Indels 12; Gaps 5;

QY 72 TLQQLA--KEFCQYVVKQSLKCTFGKHKSPDITWRYRGDCYGFRRHNTLWESKQY 129
 DB 83 TLWMLVIFETFPVLCNKEVPSRSRGYGPDPNNWICHRNKCQYFNEEKYWNOSQAS 142
 QY 130 CTDMNATLTKIDRNINVEYIKARTHLIR--WVGLSRQKSNVEYKMKEDGSVISSENFEEL 186
 DB 143 CUSQNSGLKTYKEKEDPLK----LVKSYHMGVLVOIRANGSVQWEDGSSLSYNQITLV 198
 QY 187 EDGKGNMNA-YFHNGKHPPTFCENKHYLMCEERKA 220
 DB 199 EIPKQ--SCAVYGSFKAYTEDCANINITYICMERA 231

RESULT 28

Q9MZ37 PRELIMINARY; PRT; 215 AA.
 ID Q9MZ37
 AC Q9MZ37
 DT 01-OCT-2000 (TREMBlrel. 15, Created)
 DT 01-OCT-2000 (TREMBlrel. 15, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE NK cell receptor D.
 GN NKG2-D.
 OS Pan troglodytes (Chimpanzee).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Pan.
 OC NCBI_TaxID=9598;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Khakoo S.L., Rajalingam R., Shum B.P., Weidenbach K., Flodin L.,
 RA Muir D.G., Canavez P., Cooper S.L., Valiante N.M., Lantier L.L.,
 RA Parham P.;
 RT "Rapid evolution of NK cell receptor systems demonstrated by
 RT comparison of chimpanzees and humans.";
 RL Submitted (AUG-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF259063; AAF86971.1; -;
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT_1.
 DR PROSITE; PSS0041; C_TYPE_LECTIN_2; 1.
 KW Receptor.
 SQ SEQUENCE 216 AA; 25303 MW; 30DD0F401D99BE1 CRC64;

Query Match 16.8%; Score 211.5; DB 6; Length 215;
 Best Local Similarity 29.0%; Pred. No. 2e-12;
 Matches 51; Conservative 35; Mismatches 57; Indels 33; Gaps 7;

QY 48 IVALGIVSYMGRNYLQDENENRTGTLQALAPCQYVVKQSLKCTFGKHKSPDITWR 107
 DB 68 IIMVTTWSAVFLNSL-----FNGSV--QIDPLTSY---CGPCPKMVI 104
 QY 108 YRGDSCTGFRRHNTLWESKQYCTDMNATLTKI---DNRNIVEYIKARTHLIRWVLSQ 164
 DB 105 CYKNNYQTFNFSKKNVYESQASCMQNSLLKVKSEDDDLTKLVAS---YHMGVLVHI 160
 QY 165 KSNVEYKMKEDGSVISSENMFELEDGKGNMNA-YFHNGKHPPTFCENKHYLMCEERK 219
 DB 161 PTNGSVQWEDGSLSPNLLTITIMQK--DQALYASSFKGYLNGSTPVTYICMQR 214

RESULT 29

Q9MZC6 PRELIMINARY; PRT; 185 AA.
 ID Q9MZC6
 AC Q9MZC6
 DT 01-OCT-2000 (TREMBlrel. 15, Created)
 DT 01-OCT-2000 (TREMBlrel. 15, Last sequence update)
 DT 01-CON-2001 (TREMBlrel. 17, Last annotation update)
 DE NKG2-D.
 OS Macaca mulatta (Rhesus macaque).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
 OC Ceropithecoidea; Macaca.
 OC NCBI_TaxID=9544;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE=20322487; PubMed=10866118;
 RA Laborte M.L., Levy D.B., Letvin N.L.;
 RT "Characterization of rhesus monkey CD94/NKG2 family members and
 RT identification of novel transmembrane-deleted forms of NKG2-A, B, C,
 RT and D.";
 RL Immunogenetics 51:496-499(2000).
 DR EMBL; AF190944; AAF74540.1; -;
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT_1.
 DR PROSITE; PSS0041; C_TYPE_LECTIN_2; 1.
 KW Receptor.
 SQ SEQUENCE 185 AA; 21585 MW; 7D2CB79EC062FE21 CRC64;

Query Match 16.5%; Score 208; DB 6; Length 185;
 Best Local Similarity 32.8%; Pred. No. 3.6e-12;
 Matches 41; Conservative 29; Mismatches 45; Indels 10; Gaps 4;

QY 99 GSPCTNWRRYGDCYGFRRHNTLWESKQYCTDMNATLTKI---DNRNIVEYIKARTHL 155
 DB 65 CGPCPKMW-CYKNNCYGFNFSKKNVYESQASCMQNSLLKVKSEDDDLTKLVAS---- 120
 QY 156 IHWVLSRQKSNVEYKMKEDGSVISSENFELEDGKGNMNA-YFHNGKHPPTFCENKHYL 214
 DB 121 YHMGVLVHISTNGSVQWEDGSLSPNLLTITIMQK--DQALYASSFKGYLNGSTPVTY 178
 QY 215 MCERK 2:9
 DB 179 ICMQR 183

RESULT 30

Q9GLF5 PRELIMINARY; PRT; 214 AA.
 ID Q9GLF5
 AC Q9GLF5
 DT 01-MAR-2001 (TREMBlrel. 16, Created)
 DT 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE Immunoreceptor NKG2D.
 OS Sus scrofa (Pig).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
 OC NCBI_TaxID=9823;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21291702; PubMed=11398969;

RA Yim D., Jie H.B., Scitridis J., Kim Y.S., Kim K.S., Rothchild M.F.,
 RA Lanier L.L., Kim Y.B.,
 RT "Molecular cloning and characterization of pig immunoreceptor DAP10
 RT and NKGD2".
 RL Immunogenetics 53:243-249(2001).
 DR EMBL: AF285448; AAC29426.1; -
 DR InterPro; IPR002353; AntifreezeII.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C_1.
 DR PRINTS; PR00356; ANTIFREEZEII.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 KM Receptor
 SQ SEQUENCE 214 AA; 24772 MW; 22C0857BBE136362 CRC64;

Query Match 16.3%; Score 205; DB 6; Length 214;
 Best Local Similarity 28.9%; Pred. No. 8,4e-12;
 Matches 55; Conservative 30; Mismatches 65; Indels 40; Gaps 6;

QY 24 PASSFWRMVALLILILCVGVVGLVALGIMVQPNYLODENENRGTLOQLARFCQY 83
 DB 48 ESEFPLASIAIAMGIRIVVM-----ITSGMILNLFNQ----- 83
 QY 84 VVKSELKGTFRKHCSPCDINRYGDSYGFPRHNLTEESKOYCTDNNATLLKIDNR 143
 DB 84 -----EADSPLEKSYGCPKRWICYNQYQFSNESKXWLOQASCSQNSILKITYSR 138
 QY 144 NIVEYIKARTHLIR---WVGLSRQKSNVWMEGDSVISENMFELFDGKNNCAVFNH 200
 DB 139 EDQGFYK---LVASYHMGVLVQPIFRSMQWSDGSLISFNQITWVWONG--SCAVY-- 190
 QY 201 GXMHPFCEN 210
 DB 191 GSSPKGYTEN 200

RESULT 31

070215 PRELIMINARY; PRT; 215 AA.

ID 070215
 AC 070215;
 DT 01-AUG-1998 (TrEMBLrel. 07, Created)
 DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE NKR-P2.
 GN NKR-P2.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=R344;
 RX MEDLINE=98281903; PubMed=9620593;
 RA Berg S.F., Disen E., Westgaard I.H., Fossum S.,
 RT "Molecular characterization of rat NKR-P2, a lectin-like receptor
 RT expressed by NK cells and resting T cells.",
 RL Int. Immunol. 10:379-385(1998).
 DR EMBL: AF009511; AAC40092.1; -
 DR InterPro; IPR002353; AntifreezeII.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C_1.
 DR PRINTS; PR00356; ANTIFREEZEII.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 SQ SEQUENCE 215 AA; 24438 MW; B49C0364613031AF CRC64;

Query Match 16.2%; Score 204.5; DB 11; Length 215;
 Best Local Similarity 30.6%; Pred. No. 9,4e-12;
 Matches 44; Conservative 29; Mismatches 56; Indels 15; Gaps 5;

QY 81 CQYVVKQSEILKGTFRKHCSPCDINRYGDSYGFPRHNLTEESKOYCTDNNATLLKI 140
 DB 82 CKKEVSVSREG-----YCGPCNDMI GHRNNCYQPIFNKRNKQASCSLSONSLKTI 136

QY 141 DNRNIVEYIKARTHLIR---WVGLSRQKSNVWMEGDSVISENMFELFDGKNNCA- 196
 DB 137 YSKEDQDLK---LVKSYHMGVLVQSPANGSMQWSDGSLISFNELITLVKPSG--TCAY 190
 QY 197 YFNHGHMPTFCENKHYLMCKERK 220
 DB 191 YGSSFRAYTEDCSNPNTYICMKRA 214

RESULT 32

09SP06 PRELIMINARY; PRT; 277 AA.

ID 09SP06
 AC 09SP06;
 DT 01-JUN-2002 (TrEMBLrel. 21, Created)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
 DE NK receptor Ly49.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Bovinae; Bos.
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21858859; PubMed=11870625;
 RA McQueen K.L., Wilhelm B.T., Harden K.D., Mager D.L.,
 RT "Evolution of NK receptors: a single Ly49 and multiple KIR genes in
 RT the cow".
 RL Eur. J. Immunol. 32:810-817(2002).
 DR EMBL: AY075101; AA62800.1; -
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C_1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 KM Receptor.
 SQ SEQUENCE 277 AA; 32383 MW; 306C295D5CA2715E CRC64;

Query Match 15.9%; Score 200.5; DB 6; Length 277;
 Best Local Similarity 24.4%; Pred. No. 3,1e-11;
 Matches 58; Conservative 38; Mismatches 91; Indels 51; Gaps 7;

QY 26 SSFWRMVALLILILCVGVVGLVALGI-----WSVMQF-----NYL 62
 DB 40 SSVPWHGIAVTLGILLILMTITVIGIKISQYLLEKHOQEFALMN;SQKYCVVQNDNYL 99
 QY 63 Q-----DENENRGTLOQL-----ARFQGYVVKQSEL---KGTFRKHCSPC 102
 DB 100 NKQLLIKTSBCDRNLNETLOQIKGLSDLVFTEKKGGCYHKKSSSLPNTGEK----- 152
 QY 103 DITWRVYGDSCYGFPRHNLTEESKOYCTDNNATLLKIDNRNIVEYIKART-HLIRVGL 161
 DB 153 EYSWQWGVNVCYFPAETETNNWNGCNGIQSHNSCLIKIDAEKLN;JQSCTCNVYVIGL 212
 QY 162 SHQKSNVWKMIDGVSISNMFELFDGKNNCAVFNHGHMPTFCENKHYLMCKERK 219
 DB 213 AFSKQENRWKIDNGIPSRILHITMDHRGXDECAFETRIETITIDCYTYNCICRKA 270

RESULT 33

08KH99 PRELIMINARY; PRT; 179 AA.

ID 08KH99
 AC 08KH99;
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE Natural killer cell receptor.
 GN POPY-CD94.
 OS Pongo pygmaeus (Orangutan).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Pongo.
 RN [1]
 NCBI_Taxid=9600;

SEQUENCE FROM N.A.
 MEDLINE=22072192; PubMed=12077248;
 RA Guehlein L.A., Flodin L.R., Adams E.J., Parham P.;
 RT "NK Cell Receptors of the Orangutan (*Pongo pygmaeus*): A Pivotal
 Species for Tracking the Coevolution of Killer Cell Ig-like Receptors
 with MHC-C";
 RL J. Immunol. 169:220-229(2002).
 DR EMBL: AF470380; AAM78480.1; -;
 DR EMBL: AF470385; AAM78485.1; -;
 DR InterPro: IPR006209; EGF-like.
 DR InterPro: IPR001304; Lectin_C.
 DR Pfam: PF00059; Lectin_C/1.
 DR SMART: SM00034; CLECT; 1.
 DR PROSITE: PS50041; C TYPE LECTIN_2; -;
 DR PROSITE: PS00022; EGF_1; 1.
 KW Receptor.
 SQ SEQUENCE 179 AA; 20520 MW; 6744895FBD95CFA CRC64;

Query Match 15.5%; Score 196; DB 6; Length 179;
 Best Local Similarity 23.1%; Pred. No. 5e-11;
 Matches 46; Conservative 37; Mismatches 84; Indels 32; Gaps 5;

QY 26 SSFWRVWALILLCVGVVGLVALGWSVQGNVYQDENENFTGLQCLARR-FCQYV 84
 DB 6 TTTMWLISG-----TLGICLSL-----TATIGILKNSFKLS 39
 QY 85 VKQSELKSG---TFKHKCSPCDIMRWRYGDSYGFPRHNLTWESKQYCTDMATLTKI 140
 DB 40 IEPFTGPPDIELOKDDCCQCKWVGYRCNCFITSEQRTWESHLLCQCKSLLOL 99
 QY 141 DNENIVYIKAFTHLIRWVGLSROKSNVWKMEDGVSISENMFLEDKGNMCAVFNH 200
 DB 100 QNTELDLPMS-SQPFYWGHSYSEHWTAMLENGSLSYLPFLPTFPKCIATNPN 158
 QY 201 GKCHPTCEKHYLMCEK 219
 DB 159 GNALDSCDKNRYTCQK 177

RESULT 34
 ID 035778 PRELIMINARY; PRT; 179 AA.
 AC 035778;
 DT 01-JAN-1998 (TrEMBLrel. 05, Created)
 DT 01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE CD94.
 GN CD94.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_Taxid=10116;
 RN [1]
 RP SOURCE FROM N.A.
 RC STRAIN=P344;
 RX MEDLINE=97439492; PubMed=9295048;
 RA Disson E., Berg S.F., Westgaard I.H., Fossum S.;
 RT "Molecular characterization of a gene in the rat homologous to human
 RT CD94";
 RL Eur. J. Immunol. 27:2080-2086(1997).
 DR EMBL: AF009133; AAC10220.1; -;
 DR InterPro: IPR006209; EGF-like.
 DR InterPro: IPR001304; Lectin_C.
 DR Pfam: PF00059; Lectin_C/1.
 DR SMART: SM00034; CLECT; 1.
 DR PROSITE: PS50041; C TYPE LECTIN_2; 1.
 DR PROSITE: PS00022; EGF_1; 1.
 SQ SEQUENCE 179 AA; 20791 MW; 11E8A55C670EEB84C CRC64;

Query Match 15.5%; Score 196; DB 11; Length 179;
 Best Local Similarity 23.9%; Pred. No. 5e-11;
 Matches 49; Conservative 45; Mismatches 71; Indels 40; Gaps 8;

QY 30 WRVVALILILLCVGVVGLVALGWSVQGNVYQDENENFTGLQCLARR-FCQYV 84
 DB 9 WRVMSNFGIKCLFLVAL-----GLVKN-----SFTQNT-----QSTPSTP 48
 QY 90 LKGFHGHKSPCDIMRWRYGDSYGFPRHNLTWESKQYCTDMATLTKIDNRIVEYI 149
 DB 49 IVEFQKSKCCACLEKRTIGHQCCYFTSKKEKWKSGREFCAGSNSSLDLOTNLSFM 108
 QY 150 KARTHLIRWVGLSROKSNVWKMEDGVSISENMF-----EPLDCKKYN-C-AVFNQKM 204
 DB 109 SS-SQAFWVGIHYNERSAMLEWEDGTFPSKDLFPESKTRQD-----HCIGISISKEIS 162
 QY 205 PTREKHYLMCEKKAQMTVDQLP 229
 DB 163 SESECNRFICK-----QLP 178

RESULT 35
 ID 080CUC7 PRELIMINARY; PRT; 226 AA.
 AC 080CUC7;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE Putative NK receptor.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_Taxid=10090;
 RN [1]
 RP SOURCE FROM N.A.
 RC STRAIN=C57BL/6; TISSUE=Spleen;
 RA Koike J., Sato H., Shimizu B., Taniguchi M.;
 RT "Identification and Characterization of a Novel NK Receptor";
 RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AF306663; AAN31172.1; -;
 KW Receptor.
 SQ SEQUENCE 226 AA; 26265 MW; FE1E25C0A80B2JFD CRC64;

Query Match 15.5%; Score 195.5; DB 11; Length 226;
 Best Local Similarity 23.8%; Pred. No. 7.4e-11;
 Matches 45; Conservative 39; Mismatches 76; Indels 29; Gaps 5;

QY 30 WRVVALILILLCVGVVGLVALGWSVQGNVYQDENENFTGLQCLARR-FCQYV 84
 DB 67 WRLLSVLDAMC-----LLMAVAVMTTFTKSSSSRSSTIQ----- 106
 QY 90 LKGFHGHKSPCDIMRWRYGDSYGFPRHNLTWESKQYCTDMATLTKIDNRIVEYI 149
 DB 107 EQLH-----HCPENWVWFRSCYTFKSKELIWRDQACSLNSSLIRM-NKEEMFF 159
 QY 150 KARTHLIRWVGLSROKSNVWKMEDGVSISENMFLEDKGNMCAVFNQKMPFCE 209
 DB 160 SLKSEF--VWGYVMTQRQWLWEDHSVLPGLFSLILANMKNPCASYSKRAYWENCA 217
 QY 210 NKHYLMCEK 218
 DB 218 NKLYTYICKK 226

RESULT 36
 ID 08MEY8 PRELIMINARY; PRT; 179 AA.
 AC 08MEY8;
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE Natural killer cell receptor.
 GN POPY-CD94.
 OS Pongo pygmaeus (Orangutan).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Pongo.
 OX NCBI_Taxid=9600;

RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22072192; PubMed=12077248;
 RA Guehllein L.A., Flodin L.R., Adams E.J., Parham P.;
 RT "NK Cell Receptors of the Orangutan (Pongo pygmaeus): A Pivotal
 RT Species for Tracking the Coevolution of Killer Cell Ig-Like Receptors
 RT with MHC-C";
 RL J. Immunol. 169:220-229 (2002).
 DR EMBL; AF470381; AAM78481.1; -;
 DR EMBL; AF470382; AAM78482.1; -;
 DR InterPro; IPR006209; EGF like.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00041; C TYPE LECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1; 1.
 KW Receptor.
 SQ SEQUENCE 179 AA; 20550 MW; 6752CB8F182CPD73 CRC64;

Query Match 15.5%; Score 195; DB 6; Length 179;
 Best Local Similarity 23.2%; Pred. No. 6.3e-11;
 Matches 46; Conservative 37; Mismatches 85; Indels 30; Gaps 5;

QY 26 SFFWRRVVALIILICVGVVGLVALGIWVQWQNYLQDENENRTGLQLAKRQCQYV 85
 DB 6 TILWMLISG-TLIGILCLSL--WATLGI-----LTKNSFTKLSI 40
 QY 86 KQSELKLG---TFKHKSCPCDTWRYGDSGCGFPRHNLWESKQYCTDMATLTKID 141
 DB 41 EPAFPGPDIELOKSDSCSCQEKWVGRCNCFISSQKTNWESRHLCASQKSLDLQ 100
 QY 142 NKNIVYIKARTHLIRWVGLSRQSNWVKWEDGSVISNMFELDCKGNMCAVFFIN 201
 DB 101 NTDELDFMSS-SQGFYWIGLSYSEHETAWLWENGSLQYLPFLFTFNPRNCIAVNPNG 159
 QY 202 KMHPTFCENKHYLMCKER 219
 DB 160 NALDESCEDKRNRYICKQ 177

RESULT 37

Q8MJ14 PRELIMINARY; PRT; 179 AA.
 AC Q8MJ14;
 DT 01-OCT-2002 (Tremblrel. 22. Created)
 DT 01-OCT-2002 (Tremblrel. 22. Last sequence update)
 DT 01-MAR-2003 (Tremblrel. 23. Last annotation update)
 DE Natural killer cell receptor.
 GN POPY-CD94.
 OS Pongo pygmaeus (Orangutan).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Pongo.
 OX NCBI_TaxID=9600;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22072192; PubMed=12077248;
 RA Guehllein L.A., Flodin L.R., Adams E.J., Parham P.;
 RT "NK Cell Receptors of the Orangutan (Pongo pygmaeus): A Pivotal
 RT Species for Tracking the Coevolution of Killer Cell Ig-Like Receptors
 RT with MHC-C";
 RL J. Immunol. 169:220-229 (2002).
 DR EMBL; AF470383; AAM78483.1; -;
 DR InterPro; IPR006209; EGF like.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00041; C TYPE LECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1; 1.
 KW Receptor.
 SQ SEQUENCE 179 AA; 20536 MW; 674489B5E6CF8780 CRC64;

Query Match 15.4%; Score 194; DB 6; Length 179;
 Best Local Similarity 23.1%; Pred. No. 7.9e-11;

Matches 46; Conservative 37; Mismatches 84; Indels 32; Gaps 5;
 QY 26 SFFWRRVVALIILICVGVVGLVALGIWVQWQNYLQDENENRTGLQLAKRQCQYV 84
 DB 6 TILWMLISG-TLIGILCLSL--WATLGI-----LTKNSFTKLSI 39
 QY 85 VQSELKLG---TFKHKSCPCDTWRYGDSGCGFPRHNLWESKQYCTDMATLTKI 140
 DB 41 EPAFPGPDIELOKSDSCSCQEKWVGRCNCFISSQKTNWESRHLCASQKSLDLQ 99
 QY 141 ENKNIVYIKARTHLIRWVGLSRQSNWVKWEDGSVISNMFELDCKGNMCAVFFIN 200
 DB 100 NTDELDFMSS-SQGFYWIGLSYSEHETAWLWENGSLQYLPFLFTFNPRNCIAVNPNG 158
 QY 201 KMHPTFCENKHYLMCKER 219
 DB 159 NALDESCEDKRNRYICKQ 177

RESULT 38

Q8MJ13 PRELIMINARY; PRT; 179 AA.
 AC Q8MJ13;
 DT 01-OCT-2002 (Tremblrel. 22. Created)
 DT 01-OCT-2002 (Tremblrel. 22. Last sequence update)
 DT 01-MAR-2003 (Tremblrel. 23. Last annotation update)
 DE Natural killer cell receptor.
 GN POPY-CD94.
 OS Pongo pygmaeus (Orangutan).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Pongo.
 OX NCBI_TaxID=9600;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22072192; PubMed=12077248;
 RA Guehllein L.A., Flodin L.R., Adams E.J., Parham P.;
 RT "NK Cell Receptors of the Orangutan (Pongo pygmaeus): A Pivotal
 RT Species for Tracking the Coevolution of Killer Cell Ig-Like Receptors
 RT with MHC-C";
 RL J. Immunol. 169:220-229 (2002).
 DR EMBL; AF470384; AAM78484.1; -;
 DR InterPro; IPR006209; EGF like.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00041; C TYPE LECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1; 1.
 KW Receptor.
 SQ SEQUENCE 179 AA; 20566 MW; 6752CB8F0F9A2609 CRC64;

Query Match 15.3%; Score 193; DB 6; Length 179;
 Best Local Similarity 23.2%; Pred. No. 9.9e-11;
 Matches 46; Conservative 37; Mismatches 85; Indels 30; Gaps 5;

QY 26 SFFWRRVVALIILICVGVVGLVALGIWVQWQNYLQDENENRTGLQLAKRQCQYV 85
 DB 6 TILWMLISG-TLIGILCLSL--WATLGI-----LTKNSFTKLSI 40
 QY 86 KQSELKLG---TFKHKSCPCDTWRYGDSGCGFPRHNLWESKQYCTDMATLTKID 141
 DB 41 EPAFPGPDIELOKSDSCSCQEKWVGRCNCFISSQKTNWESRHLCASQKSLDLQ 100
 QY 142 NKNIVYIKARTHLIRWVGLSRQSNWVKWEDGSVISNMFELDCKGNMCAVFFIN 201
 DB 101 NTDELDFMSS-SQGFYWIGLSYSEHETAWLWENGSLQYLPFLFTFNPRNCIAVNPNG 159
 QY 202 KMHPTFCENKHYLMCKER 219
 DB 160 NALDESCEDKRNRYICKQ 177

RESULT 39

Q8KAF1

QY 128 QXCDMNAATLLKIDNENIVEYI-KARTHILRWVGLSRQKSNRWKMGDSVTSNNFEFL 186
 Db 183 KTCQALNAHLVINSREEDNFVQKYLGSAYTWGSLSDPEG--AMKWDGTDYATG-FQNM 239
 QY 187 EDGK-----GNNCAVPH-NGKMHPTFCENKHYLMCERKAGMT 223
 Db 240 KFGQPDWQGHGLGGGECDAHFHFDGRMNDVQCQRPYHWCEAGLGQT 287

RESULT 42

Q62983 PRELIMINARY; PRT; 223 AA.
 AC Q62983;
 DT 01-NOV-1996 (TREMBlrel. 01, Created)
 DT 01-NOV-1996 (TREMBlrel. 01, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE NKR-PIB.
 GN NKR-PIB.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 CX NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=f344;
 RA Dissen E.; Ryan J.C.; Seaman W.E.; Fossum S.;
 RT "rat NKR-PIB CDNA."
 RL J. Exp. Med. 0:0-0(1996).
 DR EMBL; U56936; AAB01986.1; -.
 DR HSSP; P22897; IEGG.
 DR InterPro; IPR002353; Antifreezeit.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR PRINTS; PR00356; ANTIFREEZEIT.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PSS0041; C TYPE LECTIN 2; 1.
 SQ SEQUENCE 223 AA; 24800 MW; B6254AD01C580086 CRC64;

Query Match 15.1%; Score 191; DB 11; Length 223;
 Best Local Similarity 27.4%; Pred. No. 2e-10;
 Matches 55; Conservative 39; Mismatches 73; Indels 34; Gaps 7;

QY 30 WRVWALLT---TLCGVWVGVVALGWSVMQNTYQ---DENERTTLLQOLARFC 81
 Db 36 WHHLALKGACALILVLSVIGLV-VTLTQKPLIQNSPAVQENRTKTTTTPAK--- 91
 QY 82 QYVVKOSELKGTEKGKCSPTDNNWRYGDSYCGFFPHNLTFESKQYCTDMNAATLLKID 141
 Db 92 -----LK-----CPDWHSLQDKCPHVQSTITWGLADCGKATLLLVQ 133
 QY 142 NNNIVEYIKARTHLT---RWGGLSRQKSNRWKMGDSV-SENMFEELEDGKNMCAVYF 198
 Db 134 DDEELAFRLNLTERRIISFWIGSYTLSDKWKWINGSSTNSALNITGTEKD-SCASV 192
 QY 199 HNGKMHPTFCENKHYLMCERK 219
 Db 193 SQDKVLSSECDSDNMTWCKE 213

RESULT 43

Q81UN9 PRELIMINARY; PRT; 316 AA.
 AC Q81UN9;
 DT 01-MAR-2003 (TREMBlrel. 23, Created)
 DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE Similar to macrophage lectin 2 (Calcium dependent).
 OS Homo sapiens (Human).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 CX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.

RC TISSUE=Brain;
 RA Strausberg R.;
 RL Submitted (NOV-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC039011; AAH39011.1; -.
 KW Lectin.
 SQ SEQUENCE 316 AA; 35446 MW; DBE7193E2E1F58AF CRC64;

Query Match 15.1%; Score 190; DB 4; Length 316;
 Best Local Similarity 29.1%; Pred. No. 3.7e-10;
 Matches 48; Conservative 30; Mismatches 63; Indels 24; Gaps 8;

QY 73 LQQLAKRCQYV--KQSLKGTGPKHKCSPTDNNWRYGDSYCGFFPHNLTFESKQY 130
 Db 157 VQDKKLTQVATLNNASTEGT-----C-CPVWVSHQDSYWFSGMSWAEAKYC 209
 QY 131 TDKNATLLKIDNENIVEYI-KARTHILRWVGLSRQKSNRWKMGDSVTSNNFEFL 189
 Db 210 QLNNAHLVINSREEDNFVQKYLGSAYTWGSLSDPEG--AMKWDGTDYATG-FQNM 266
 QY 190 K-----GNNCAVPH-NGKMHPTFCENKHYLMCERKAGMT 223
 Db 267 QPDWQGHGLGGGECDAHFHFDGRMNDVQCQRPYHWCEAGLGQT 311

RESULT 44

C70156 PRELIMINARY; PRT; 364 AA.
 AC C70156;
 DT 01-AUG-1998 (TREMBlrel. 07, Created)
 DT 01-AUG-1998 (TREMBlrel. 07, Last sequence update)
 DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)
 DE Endothelial receptor for OXIDIZED LOW-density lipoprotein.
 GN LOX-1.
 OS Rattus norvegicus (Rat).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 CX NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=SHR-SP; TISSUE=Kidney;
 RA MEDLINE=98161826; PubMed=9494115;
 RX Nagase M., Hirose S., Fujita T.;
 RT "Unique repetitive sequence and unexpected regulation of expression of
 RT rat endothelial receptor for oxidized low-density lipoprotein (LOX-
 RT 1)".
 RL Biochem. J. 330:1417-1422 (1998).
 RN [2]

RP SEQUENCE FROM N.A.
 RC STRAIN=SPRAGUE-DAWLEY; TISSUE=Liver;
 RX MEDLINE=99057940; PubMed=9837956;
 RA Nagase M., Abe J., Takahashi K., Ando J., Hirose S., Fujita T.;
 RT "Genomic organization and regulation of expression of the lectin-like
 RT oxidized low-density lipoprotein receptor (LOX-1) gene".
 RL C. Biol. Chem. 273:33702-33707 (1998).
 DR EMBL; AB005900; BAA25785.1; -.
 DR EMBL; AB018104; BAA35123.1; -.
 DR EMBL; AB018097; BAA35123.1; JOINED.
 DR EMBL; AB018098; BAA35123.1; JOINED.
 DR EMBL; AB018099; BAA35123.1; JOINED.
 DR EMBL; AB018100; BAA35123.1; JOINED.
 DR EMBL; AB018101; BAA35123.1; JOINED.
 DR EMBL; AB018102; BAA35123.1; JOINED.
 DR EMBL; AB018103; BAA35123.1; JOINED.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PSS0041; C TYPE LECTIN 2; 1.
 KW Lectin; Lipoprotein_Receptor.
 SQ SEQUENCE 364 AA; 41890 MW; 0AD2839C07206E09 CRC64;

Query Match 15.1%; Score 190; DB 11; Length 364;
 Best Local Similarity 26.1%; Pred. No. 4.4e-10;
 Matches 48; Conservative 36; Mismatches 60; Indels 40; Gaps 8;

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QY 54 WSVGMQNYLQDE---NENRTGLQOLAKRFQYVVKOSBLKGFCKHCKSPCDITMRY 109
DB 202 WFLNKSXKQEBLLQONQOLQALQRAA-----NSSGCPQDMLWH 242
QY 110 GDSCTGFPHNTTWBSKQYCTDNANTLTKI---DNENLVEXKARHLIR--WVGLSRQ 164
DB 243 KENCY-LPHGPFNWKSRNCLSDAOLQISTDILNFV--LQATSHSTSPFWGLHRX 299
QY 165 KSNEVWKWEDGVSLENMFEELDEKGNM-----NCAVFNHGRKHPTFCNKATLMGER 218
DB 300 NPHNFWLHNSGSPLS---PQFFRTGVSLOMTSSGTCAVIGGVFAENCILITVAFSIQOK 366
QY 219 KAGM 222
DB 357 KANL 360

RESULT 45
Q9BDH2 PRELIMINARY; PRT; 285 AA.
AC Q9BDH2;
DT 01-JUN-2001 (TReMBLrel. 17, Created)
DT 01-JUN-2001 (TReMBLrel. 17, last sequence update)
DT 01-MAR-2002 (TReMBLrel. 20, last annotation update)
DE 01-Killer cell lectin-like receptor A-1.
GN KLR-1.
OS Papio hamadryas (Hamadryas baboon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
OC Cercopithecinae; Papio.
OX NCBI_TaxId=9557;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Lymphocytes;
RX MEDLINE=21261853; PubMed=11369209;
RA Mager D.L., Moqseen K.T., Wee V., Freeman J.D.;
RT "Evolution of natural killer receptors: co-existence of functional
RT Lys49 and KIR genes in baboon.";
RL Curr. Biol. 11:626-630(2001).
DR EMBL; AY028399; AAK26161.1; -.
DR HSSP; P05451; IODD.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
DR KX Lectin, Receptor.
SQ SEQUENCE 285 AA; 33459 MW; 0C9FDA762B1488FE CAC64;

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Query Match 15.0%; Score 189.5; DB 6; Length 285;
Best Local Similarity 23.5%; Pred. No. 3.7e-10;
Matches 55; Conservative 41; Mismatches 87; Indels 51; Gaps 7;

QY 30 MRWALLILILICVQ--WVGVVAGISVMQRYLQDE-----NEN----- 68
DB 44 WRLIAVITIGITCLULMIVIVVTKIQCVCSEKHEQDILNRSKIKIMQNDNLKEQL 103
QY 69 -----RTGTLQO-----LAKRFLC-----QYVVKOSBLKGFCKHCKSPCDITM 106
DB 104 TNKTLKYDILKKDFFLQKELDSLMLKSRCHRENIYVLTQNTGKFS-----EDHW 156
QY 107 RYVGDSCYGFPRHLTWBSKQYCTDNANTLTKIDNRNIVELYIARFHLIR--WVGLSRQ 165
DB 157 SCCGNCYCFYMQKKWKGCQQTQCHGRSSLLKTDDELAFISQIYENNYWTGLSYDK 216
QY 166 SNEVWKWEDGVSLENMFEELDEKGNMCAVFNHGRKHPTFCNKATLMGER 219
DB 217 RESKWKWDINGTSGINSTIRASSGEGCAFLITSTYATIDLCIKTNCICEKR 270

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RESULT 46
Q8K3G1 PRELIMINARY; PRT; 280 AA.
ID Q8K3G1

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AC Q8K3G1;
DT 01-OCT-2002 (TReMBLrel. 22, Created)
DT 01-OCT-2002 (TReMBLrel. 22, last sequence update)
DT 01-MAR-2003 (TReMBLrel. 23, last annotation update)
DE Lys49 inhibitory receptor 2.
GN Lys4912.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxId=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=PVG;
RX MEDLINE=22110099; PubMed=12115624;
RA Naper C., Hayashi S., Joly E., Butcher G.W., Rolstad B., Vaage J.T.,
RA Ryan J.C.;
RT "Ly4912 is an inhibitory rat natural killer cell receptor for an MHC
RT class Ia molecule (RT1-A1c).";
RL Eur. J. Immunol. 32:2031-2036(2002).
DR EMBL; AY115572; AAM56042.1; -.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
DR KX Receptor.
SQ SEQUENCE 280 AA; 32671 MW; 474B3B84A96AE021 CRC64;

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Query Match 14.9%; Score 188.5; DB 1; Length 280;
Best Local Similarity 23.9%; Pred. No. 4.5e-10;
Matches 54; Conservative 45; Mismatches 90; Indels 37; Gaps 7;

QY 26 SSVFWRVALLILICVGVVAGISVMQRYLQDE-----LQD-----ENF----- 67
DB 39 SSVFKKIVIALGICVLLV--TVAVLVNLCLOYNHTEHLOQTQNSQHNCTWENDIKL 97
QY 68 -----NRTGLQOLAKRFQYVVKOSBLKGFCKHCKSPCDITMRYVGDSCYQ 115
DB 98 KEEMLRNWSVSTRYNALLDINRQKRWYNTKTIVLAHQHGGCVEMHLCIGIKCY 157
QY 116 FFRNHLTWBSKQYCTDNANTLTKIDNRNIVELYIARFHLIR--WVGLSRQSNVYWK 172
DB 158 FIDKRTWIKCIQTCQVYSLSFKIHDKELKFL--ODHITDSYWTGLSYNNKKRMSW 215
QY 173 EDGVSLENMFEELDEKGNMCAVFNHGRKHPTFCNKATLMGER 218
DB 216 IDNTNLCDLVAMLSLHKTG--NCKYFSMTSGIHDDCGSKRHLCICEK 260

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RESULT 47
Q54707 PRELIMINARY; PRT; 179 AA.
ID Q54707
AC Q54707;
DT 01-JUN-1998 (TReMBLrel. 06, Created)
DT 01-JUN-1998 (TReMBLrel. 06, last sequence update)
DT 01-MAR-2003 (TReMBLrel. 23, last annotation update)
DE Killer cell lectin-like receptor, subfamily D, member 1 (CD94).
GN KIRD1 OR CD94.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxId=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RA Vance R.E., Tanemachi D.M., Hanke T., Raullet D.H.;
RL Eur. J. Immunol. 27:0-0(1997).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RA Heusel J.W., Ho E.L., Brown M.G., Matsumoto K., Yokoyama W.M.;
RT "Murine CD94.";
RL Proc. Natl. Acad. Sci. U.S.A. 0:0-0(1998).
RN [3]

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